Plan Name	Bucket	Task Title	Progress	Assigned to
Carbon Roadma	Reduce current GHG emissions	1.1 Develop and implement a mechanism to include greenhouse gas reduction in GOO Engineering	Completec	Price, Bruce;Wright, Dugald M.
Carbon Roadma	Reduce current GHG emissions	1.10 Deliver 3 Mte Sustainable Emission Reductions (100% of Operated basis) by 2025.	Completec	King, Dave J
Carbon Roadma	Reduce current GHG emissions	1.11 Gain approval for new Upstream RSR target by 2025 to include GOO, GWO, & L48.	Completec	
Carbon Roadma	Reduce current GHG emissions	1.12 Complete energy reviews for 3 GOO assets.	Completec	
Carbon Roadma	Reduce current GHG emissions	1.13 Identify highest OBO contributors to BP's reported equity GHG emissions and develop a	Completec	
Carbon Roadma	Reduce current GHG emissions	1.14 Develop SER economic evaluation methodology and present to Upstream Carbon Steering Team	Completec	O'Brien, Robert;Cooper, Rob
Carbon Roadma	Reduce current GHG emissions	1.2 Evaluate and trial technologies for improved measurement of flare combustion efficiency (CE) and fugitive emission rates to verify / enhance quantification of methane emissions and emission reductions	Completec	Touzel, Daniel F;Evans, Peter;Hashmi, Ahmed A

Carbon Roadma	Reduce current GHG emissions	1.3 Quantify the impact of plant reliability on asset GHG emissions / GHG intensity.	Completec	
Carbon Roadma	Reduce current GHG emissions	1.4 Evaluate options for methane emission reductions in L48, including change-out of gas pneumatics. Agree way	Completec	ZZGerard, Faye;ZZFagbayi, Kola
Carbon Roadma	Reduce current GHG emissions	1.5 Pilot methane identification and quantification technology and its potential for use in	Completec	Touzel, Daniel F;Wright, Dugald M.
Carbon Roadma	Reduce current GHG emissions	1.6 Evaluate technical options for reducing flaring from Angola Block 18 northern fields (subject to legal, contractual and	Completec	Willis, Stephen H
Carbon Roadma	Reduce current GHG emissions	1.7 Produce paper outlining the feasibility and strategy for green completions in Oman in Q4 2017	Completec	

Carbon Roadma	Reduce current GHG emissions	1.7a Trial of green completions in Oman in 1Q 2019	Completec	Krieger, Andy G;Pickard, Kate;White, Daniel
Carbon Roadma	Reduce current GHG emissions	1.8 Assess whether to include all GOO assets in the scope of the CCAC Oil &	Completec	King, Dave J
Carbon Roadma	Reduce current GHG emissions	1.9 Seek consent through L48 governance process to include identified L48 assets in the scope of the CCAC Oil & Gas Methane Partnership by 2018.	Completec	
Carbon Roadma	Reduce future GHG emissions	2.1 Conduct emissions benchmarking at Concept Development stage.	Completec	O'Connor, David J;Olsson, Jenny CM;Wilford, Sarah

Carbon Roadma	Reduce future GHG emissions	2.10 Consider power from shore options for Clair South during optimise.	Completec	Goldie, John
Carbon Roadma	Reduce future GHG emissions	2.2 Require that projects are developed in accordance with GN 47-061, Energy Optimization in Projects and Operations, and that full consideration is given to the use of	Completec	O'Connor, David J;Olsson, Jenny CM
Carbon Roadma	Reduce future GHG emissions	2.3 Conduct energy benchmarking for major projects as part of the Energy Value Improving	Completec	
Carbon Roadma	Reduce future GHG emissions	2.4 Develop and implement a mechanism for assessing lower carbon options within the project financial governance process.	Completec	O'Connor, David J;Olsson, Jenny CM;Wilford, Sarah
Carbon Roadma	Reduce future GHG emissions	2.5 Develop & implement a Carbon Intensity threshold process to apply to projected operational (Scope 1 and 2) GHG emissions from new projects, enabling transparency and informed decision-making if project options exceed the threshold.	Completec	
Carbon Roadma	Reduce future GHG emissions	2.6 Consider the GHG emissions profile as part of imminent decision making for Browse.	Completec	
Carbon Roadma	Reduce future GHG emissions	2.7 Evaluate lower carbon emission options for the Tortue Project and the wider development of Mauritania & Senegal.	Completec	O'Connor, David J;Olsson, Jenny CM;Wilford, Sarah

Carbon Roadma	Reduce future GHG emissions	2.8 Undertake appraisal work to assess the technical, commercial, legal and contractual feasibility of providing power from shore for the ETAP, Shearwater and Elgin Franklin platforms in the	Completec	Flores, Ariel D
Carbon Roadma	Reduce future GHG emissions	2.9 Using improved flare combustion efficiency measurement technology, work with GFH approved vendors to better understand and improve flare combustion	InProgress	O'Connor, David J;Wilford, Sarah
Carbon Roadma	Transition the Upstream Portfolio	3.1 Develop and implement a mechanism to include carbon risk, carbon opportunity and GHG intensity in the Upstream	Completec	Povey, Brian;Cooper, Rob
Carbon Roadma	Transition the Upstream Portfolio	3.2 Develop a process to build consideration of GHG emissions and potential impact of national carbon policy into Area and Regional Development Plans.	Completec	Wilford, Sarah;Smith, Martyn M
Carbon Roadma	Transition the Upstream Portfolio	**Redacted - First Amendment**	Completec	Hill, Gardiner
Carbon Roadma	Meeting Actions	Agreed topics for future Steering Meetings	InProgress	RagoonananJalim, Karen;O'Brien, Robert;King, Dave J
Carbon Roadma	Meeting Actions	Carbon abatement fund FM and draft governance process to be shared with Gordon	Completec	O'Brien, Robert;Cooper, Rob

Carbon Roadma	Meeting Actions	Check whether GOO Flaring Policy (in development) covers post-TAR start-up flaring (Bruce Price - Completed)	Completec	
Carbon Roadma	Meeting Actions	Consider a new name for the Carbon Abatement	Completec	O'Brien, Robert;King,
Carbon Roadma	Meeting Actions	Consider discussion on ETAP power from shore at next Shell meeting	Completec	Flores, Ariel D
Carbon Roadma	Meeting Actions	**Redacted - First Amendment**	ompletec	Emery, Dominic;Arderiu Serra, Enric;Towns, Martin
Carbon Roadma	Leadership in methane	Deliver Methane Leadership Plan actions	InProgress	King, Dave J
Carbon Roadma	Meeting Actions	Plan an Upstream Carbon Workshop during 1H 2019, to be aligned with plans for	Completec	RagoonananJalim, Karen;O'Brien,
Methane Leade	Action 1 - Gordon Birrell	1.1 Develop proposal for a carbon price for operations including how this could be embedded through existing processes.	Completec	
Methane Leade	Action 1 - Gordon Birrell	1.2 Roll out carbon price approach across Group (subject to learnings from 1.1).	Completec	Emery, Dominic
Methane Leade	Action 1 - Gordon Birrell	1.3 Develop Group-level carbon forecast and pricing model with 10-year projection and embed in planning process.	Completec	Emery, Dominic

Methane Leade	Action 10 - Dominic Emery	10.1 - Refresh the IMWG purpose and process and associated Advocacy Governance to make it fit	Completec	Emery, Dominic;Jefferis, Paul H.
Methane Leade	Action 10 - Dominic Emery	Redacted - First Amendment	ompletec	Alves, Nuno F;Stout, Robert;Streett, Mary
Methane Leade	Action 10 - Dominic Emery	10.3 - Review and make recommendation on future and continued participation in all methane-related voluntary programmes.	Completec	Rogers, Liz;King, Dave J
Methane Leade	Action 11 - Rachel Woods	11.1 - Deploy leaders to tell the gas story and increase BP's visibility on key global platforms e.g. World Gas Conference.	InProgress	Moore-Bridger, Clare;Woods, Rachel
Methane Leade	Action 11 - Rachel Woods	11.10 - Develop a cross-industry methane summit including e.g. agriculture and construction to tackle the methane challenge	InProgress	Moore-Bridger, Clare;Woods, Rachel
Methane Leade	Action 11 - Rachel Woods	11.2 - Create agenda setting content to drive the campaign: deep dive features on methane management and film to	InProgress	Moore-Bridger, Clare;Woods, Rachel
Methane Leade	Action 11 - Rachel Woods	11.3 - Pro-actively engage with stakeholders by hosting global stakeholder events to demonstrate BP's	InProgress	Moore-Bridger, Clare;Woods, Rachel
Methane Leade	Action 11 - Rachel Woods	11.4 - Leverage milestones on BP's most significant gas projects as live proof points	InProgress	Moore-Bridger, Clare;Woods, Rachel
Methane Leade	Action 11 - Rachel Woods	11.5 - Announce technology partnership(s) and look to communicate	InProgress	Moore-Bridger, Clare;Woods, Rachel
Methane Leade	Action 11 - Rachel Woods	11.6 - Develop an open innovation challenge to crowd source ideas to solve a significant aspect of the methane challenge.	Completec	Moore-Bridger, Clare;Woods, Rachel

Methane Leadei	Action 11 - Rachel Woods	11.7 - Publish independent data on the methane science cycle with Princeton.	InProgress	Moore-Bridger, Clare;Woods, Rachel
Methane Leadei	Action 11 - Rachel Woods	11.8 - Run media/stakeholder visits to demonstrate how we are managing methane at key	InProgress	Moore-Bridger, Clare;Woods, Rachel
Methane Leadei	Action 11 - Rachel Woods	11.9 - Show action in the business by sharing publicly what is happening from targets to reporting methodologies and	NotStartec	Moore-Bridger, Clare;Woods, Rachel
Methane Leadei	Action 12 - Mary Streett	**Redacted - First Amendment**	Completec	ZZFagbayi, Kola;Alves, Nuno F;Stout, Robert;Streett, Mary;ZZLawler, David
Methane Leadei	Action 12 - Mary Streett	12.2 - Create US Methane Campaign, inclusive of an internal/external communications, engagement, and	Completec	Alves, Nuno F;Sidoti, Elizabeth;Stout, Robert;Streett, Mary
Methane Leadei	Action 12 - Mary Streett	**Redacted - First Amendment**	Completec	Dio, Susan W;ZZFagbayi, Kola;Alves, Nuno F;Ellis, Joe;ZZLawler,
Methane Leadei	Action 12 - Mary Streett	12.4 - Host US focused stakeholder event with the objective of making a meaningful contribution to the world's understanding	Completec	Alves, Nuno F;Sidoti, Elizabeth;Stout, Robert;Streett, Mary
Methane Leadei	Action 12 - Mary Streett	12.5 - Build strategy to advocate for improvements to the EPAs GHG Reporting Rule, focused on intermittent pneumatic	InProgress	ZZGerard, Faye;ZZFagbayi, Kola;Alves, Nuno F;Stout, Robert
Methane Leadei	Action 12 - Mary Streett	12.6 - Recommend fit-for-purpose tracking tool for new proposed legislation	Completec	Alves, Nuno F;Ellis, Joe;Streett,

Methane Leadei	Action 13 - Steve Shaw	13.1 - Develop Upstream methane employee communications plan.	Completec	Shaw, Stephen
Methane Leadei	Action 13 - Steve Shaw	13.2 - Implement Upstream methane employee communications plan.	Completec	Shaw, Stephen
Methane Leadei	Action 13 - Steve Shaw	13.3 - Develop and implement L48 internal methane communications plan aligned with Segment communication plan.	Completec	ZZFagbayi, Kola;Sidoti, Elizabeth
Methane Leadei	Action 13 - Steve Shaw	13.4 - Develop approach to encourage employees to innovate and share best practice to address the methane challenge (e.g. Helios, Energise, cMore).	Completec	Shaw, Stephen
Methane Leadei	Action 13 - Steve Shaw	13.5 - Develop Upstream specific methane eLearning package covering methane sources and how they're managed.	InProgress	King, Dave J;Wright, Dugald M.
Methane Leadei	Action 14 - Dave King	14.1 - Develop SLL/Executive education programme materials.	Completec	Sathiamoorthy, Muhunthan;Rogers, Liz
Methane Leadei	Action 14 - Dave King	14.2 - Identify and agree target audience (minimum: Group Leadership & Upstream SLLs).	Completec	RagoonananJalim, Karen;King, Dave J
Methane Leadei	Action 14 - Dave King	14.3 - Develop and implement plan for SLL/ Executive education programme.	InProgress	RagoonananJalim, Karen;King, Dave J

Methane Leadeı	Action 14 - Dave King	14.4 - Develop OMS Academy module.	Completec	Sathiamoorthy, Muhunthan;Rogers, Liz
Methane Leadeı	Action 14 - Dave King	14.5 - Develop and implement ‘zero methane emissions mindset’ for L48 leaders.	InProgress	ZZFagbayi, Kola;ZZLawler, David
Methane Leadeı	Action 15 - Dave King	15.1 - Develop and agree the key focus areas for the 2018 Sustainability Report on ‘Addressing the methane challenge’ (include consideration of sources, intensity, asset class etc.)	Completec	King, Dave J;Kalpee, Tyrone
Methane Leadeı	Action 15 - Dave King	15.10 - Work with industry partners (e.g. OGCI) to build shared understanding of what ‘near zero methane emissions’ means for the	Completec	Sathiamoorthy, Muhunthan;Rogers, Liz
Methane Leadeı	Action 15 - Dave King	15.2 - Review and update Upstream methane source surveys, incorporating lessons from first surveys to close gaps (this should include GWO).	Completec	O'Brien, Robert;King, Dave J
Methane Leadeı	Action 15 - Dave King	15.3 - Conduct comparison of US with non- US methane emission methodologies e.g.	Completec	O'Brien, Robert;King, Dave J
Methane Leadeı	Action 15 - Dave King	15.4 - L48 Emission Inventory Improvement: Hold peer assist to review L48 internal GHG	Completec	ZZGerard, Faye;ZZFagbayi, Kola
Methane Leadeı	Action 15 - Dave King	15.5 - Ensure accuracy of data in L48’s systems of record that are used as inputs to emissions	Completec	ZZPugh, Brian;ZZBurton, William R

Methane Leade	Action 15 - Dave King	15.6 - Update Group reporting guidelines to improve quantification e.g. a tiered approach to methane emissions	Completec	Rogers, Liz;Castano, Alejandra
Methane Leade	Action 15 - Dave King	15.7 - Develop briefing to support consideration of the possibility of independent external auditing of methane data	Completec	Sathiamoorthy, Muhunthan;Rogers, Liz
Methane Leade	Action 15 - Dave King	15.8 - Work with trade associations (GBG, OGCI, IPIECA) and L48 to develop consistent methane emission benchmarking methodology.	Completec	Rogers, Liz;ZZFagbayi, Kola
Methane Leade	Action 15 - Dave King	15.9 - Work with industry partners (e.g. OGCI) to define industry methodology for determining methane emissions across the value chain.	InProgress	Sathiamoorthy, Muhunthan;Rogers, Liz
Methane Leade	Action 2 - David O'Connor / Richard Mortimer	2.1 Revisit GPO Carbon Principles and include specific guidance to project teams emphasising the focus on methane.	Completec	Olsson, Jenny CM;Mortimer, Richard (SUN)
Methane Leade	Action 2 - David O'Connor / Richard Mortimer	2.10 - GFH (Global Facilities Hardware) to require suppliers of equipment to	Completec	Corbally, Jim;Mortimer, Richard (SUN)
Methane Leade	Action 2 - David O'Connor / Richard Mortimer	2.11 - Lead development of Methane Reducing Best Practices (Methane Guiding Principles) and share implementation strategies	Completec	King, Dave J;Ford, Susan J (Sunbury)
Methane Leade	Action 2 - David O'Connor / Richard Mortimer	2.11a Adopt Reducing Methane Best Practices in Upstream	InProgress	Ford, Susan J (Sunbury)

Methane Leade	Action 2 - David O'Connor / Richard Mortimer	2.12 - Update L48 Facility Design Manual (FDM) to incorporate design focus on reducing methane emissions from new & modified facilities.	InProgress	ZZFagbayi, Kola;ZZUrban, Rick J
Methane Leade	Action 2 - David O'Connor / Richard Mortimer	2.2 Review output from GOO focus area on current methane emissions performance from equipment sources across upstream (e.g. flare, vapour recovery, flanges, valves	Completec	Rios, Aleida G;Aitken, Campbell T
Methane Leade	Action 2 - David O'Connor / Richard Mortimer	2.3 - Assess and recommend the best available technologies for methane source control for	Completec	Rios, Aleida G;Aitken, Campbell T
Methane Leade	Action 2 - David O'Connor / Richard Mortimer	2.4 - Review actions from other relevant industry initiatives (e.g. OGCI, IPIECA) for potential inclusion into IOGP standards committee or Engineering Leadership	Completec	Paul, Ed;Mortimer, Richard (SUN)
Methane Leade	Action 2 - David O'Connor / Richard Mortimer	2.5 - Benchmark and internally report the methane 'intensity' of projects in Concept Development.	InProgress	Lulla, Amrita;Smith, Russell I.

Methane Leade	Action 2 - David O'Connor / Richard Mortimer	2.6 - Review inclusion of low emission (CO2 and CH4) specs as part of scope of work for next phase of JIP 33.	Completec	Kennedy, John;Mortimer, Richard (SUN)
Methane Leade	Action 2 - David O'Connor / Richard Mortimer	2.7 - Revisit GPO carbon principles to include consideration for	Completec	Olsson, Jenny CM;Mortimer, Richard (SUN)
Methane Leade	Action 2 - David O'Connor / Richard Mortimer	2.8 - Define process to integrate well flow-back considerations into project concepts and incorporate into rapid screening assessment/project concept selection process.	Completec	Lulla, Amrita;Wilford, Sarah;Mortimer, Richard (SUN)
Methane Leade	Action 2 - David O'Connor / Richard Mortimer	2.8a Update the Appraisal Management Guide so that Well Flowback considerations are included as an example Tier 1 or Tier 2 decisions.	InProgress	Kennedy, John
Methane Leade	Action 2 - David O'Connor / Richard Mortimer	2.9 - Engage with suppliers on low carbon (methane and CO2) at supplier forums to identify next generation of low emission	Completec	Corbally, Jim;Mortimer, Richard (SUN)
Methane Leade	Action 3 - Andy Collins / Matt Werner	3.1 Agree and implement plan to enable (Angola) PSVM and (North Sea) Glen	InProgress	Johnston, Andy B;Boyce, Roger;Werner,
Methane Leade	Action 3 - Andy Collins / Matt Werner	3.2 Develop Segment Flaring Practice to further enhance flaring performance in the regions.	InProgress	RagoonananJalim, Karen;King, Dave J;Gordon, Graeme;Wright, Dugald M.
Methane Leade	Action 3 - Andy Collins / Matt Werner	3.3 Develop plan to embed operational mindset (GOO leadership to operators) to	Completec	Cristofoli, Giovanni;Gordon, Graeme

Methane Leadei	Action 3 - Andy Collins / Matt Werner	3.4 Implement plan to instil operational mindset to continually improve flare performance.	InProgress	Cristofoli, Giovanni;Gordon, Graeme
Methane Leadei	Action 4 - David Lawler	4.1 - Evaluate additional remote power options for pneumatic controllers and pumps at L48's dispersed facilities.	Completec	ZZGerard, Faye;ZZFagbayi, Kola
Methane Leadei	Action 4 - David Lawler	4.2 - Replace all High Bleed Controllers in L48.	Completec	ZZPugh, Brian;ZZBurton, William R
Methane Leadei	Action 4 - David Lawler	4.3 - Complete NBU Pneumatic Pump & Liquid Unloading Trials: solar pumps, removing select pumps, replacing high emitting pumps and Project Kelvin.	Completec	ZZPugh, Brian;ZZLanan, Kevin T
Methane Leadei	Action 4 - David Lawler	4.4 - Select technologies from above trials and implement across the L48.	InProgress	ZZPugh, Brian;ZZFagbayi, Kola;ZZLawler, David
Methane Leadei	Action 4 - David Lawler	4.5 - Use crowd-sourcing or other creative ways to find solutions to the pneumatics	InProgress	ZZGerard, Faye;ZZFagbayi, Kola;ZZAjakaye,
Methane Leadei	Action 5 - Andy Collins	5.1 - Develop plan to seek to influence PAE to reduce methane emissions with	InProgress	Humphreys, James R;Robbie, Sayma;Sanders,
Methane Leadei	Action 5 - Andy Collins	5.2 - Develop plan to seek to influence GUPCO to reduce methane emissions with focus on largest sources (e.g. venting).	InProgress	Humphreys, James R;Robbie, Sayma;Sanders, John (HSE & Risk)

Methane Leadei	Action 5 - Andy Collins	5.3 - Build L48 NOJV and other business partners into L48 Carbon Road Map.	InProgress	ZZFagbayi, Kola;ZZLawler, David
Methane Leadei	Action 5 - Andy Collins	5.4 - Develop strategy to influence flaring performance in Iraq (Rumaila).	Completec	King, Dave J;Ford, Susan J (Sunbury)
Methane Leadei	Action 5 - Andy Collins	5.5 - Develop plan to encourage Rosneft to join the Methane Guiding Principles.	Completec	Campbell, David;Mawer, Chris M
Methane Leadei	Action 5 - Andy Collins	5.6 - Develop process to generate robust forecast for NOJV methane emissions.	Completec	Young, Alison S;Yongo, Roy O;O'Brien, Robert;Robbie,
Methane Leadei	Action 5 - Andy Collins	5.7 - Equip NOJV Business Managers to be able to actively influence NOJV operator/partners to lower carbon intensity (incl. methane) on existing operations and with new investments	InProgress	Humphreys, James R;Robbie, Sayma;Sanders, John (HSE & Risk)
Methane Leadei	Action 6 - Morag Watson	6.1 - Review current portfolio already using xPansiv platform.	Completec	Watson, Morag S;Gray, Julian
Methane Leadei	Action 6 - Morag Watson	6.2 - Identify and engage suitable partners (incl. suppliers, partners	InProgress	Watson, Morag S;Gray, Julian
Methane Leadei	Action 6 - Morag Watson	6.3 - Work with the Global Environmental Products Team to develop accreditation benchmarks which enable delivery of a	InProgress	Watson, Morag S;Gray, Julian

Methane Leade	Action 7 - Ahmed Hashmi	7.1 - Develop a plan to use analytics to identify and quantify methane sources (including wells) and inform methane management interventions.	Completec	Watson, Morag S;Gray, Julian
Methane Leade	Action 7 - Ahmed Hashmi	7.10 - Identify suitable test sites in BP for trialing methane detection and reduction technologies, e.g. wellsite power generation.	Completec	Evans, Peter;Hashmi, Ahmed A
Methane Leade	Action 7 - Ahmed Hashmi	7.11 Develop a high-level vision statement for the methane measurement and monitoring strategy and validate with Upstream	Completec	Evans, Peter
Methane Leade	Action 7 - Ahmed Hashmi	7.2 - Complete full stack test (Ground, Flight & Orbit) to prove measurement accuracy and technology choices.	Completec	Watson, Morag S;Gray, Julian
Methane Leade	Action 7 - Ahmed Hashmi	7.3 - Deliver proof of concept field trial for drone-mounted Sensor.	Completec	Watson, Morag S;Gray, Julian
Methane Leade	Action 7 - Ahmed Hashmi	7.4 - Leak Detection & Quantification Trials: Continue current and	Completec	ZZGerard, Faye;ZZFagbayi, Kola
Methane Leade	Action 7 - Ahmed Hashmi	7.5 - Develop an upstream prioritised plan to achieve continuous methane	Completec	Watson, Morag S;Gray, Julian
Methane Leade	Action 7 - Ahmed Hashmi	7.6 - Identify and trial at a site technology to improve flaring performance (e.g. technology to better monitor/detect unlit flare	Completec	Touzel, Daniel F;Evans, Peter;Hashmi, Ahmed A

Methane Leadei	Action 7 - Ahmed Hashmi	7.7 - Complete heat map of methane related technology projects across all of BP (DIO, L48,	Completec	Evans, Peter
Methane Leadei	Action 7 - Ahmed Hashmi	7.8 - Lead cross functional workshop to agree methane technology focus areas and how technology programmes will be	Completec	Evans, Peter
Methane Leadei	Action 7 - Ahmed Hashmi	7.9 - Finalise integrated methane technology plan.	Completec	Evans, Peter;Hashmi, Ahmed A
Methane Leadei	Action 8 - Andy Collins	8.1 - Evaluate flare uncertainty (metering and combustion) across GOO operations.	InProgress	Price, Bruce;Alleyne, Ian
Methane Leadei	Action 8 - Andy Collins	8.2 - Develop a plan to evaluate flare uncertainty in GWO operations.	InProgress	Krieger, Andy G;Pickard, Kate;Partridge, April L
Methane Leadei	Action 8 - Andy Collins	8.3 - Define flare metering performance requirements and build maintenance requirements into existing maintenance processes.	NotStartec	Beamer, Steve;Werner, Matthew L
Methane Leadei	Action 8 - Andy Collins	8.4 - Define flare combustion performance requirements and build maintenance requirements into existing maintenance processes.	NotStartec	Beamer, Steve;Werner, Matthew L
Methane Leadei	Action 8 - Andy Collins	8.5 - Repair non-functioning flare meters in Angola.	Completec	Boyce, Roger;Werner, Matthew L

Methane Leade	Action 8 - Andy Collins	8.6 - Develop plan to deliver flare metering and combustion performance requirements across GOO.	InProgress	Beamer, Steve;Werner, Matthew L
Methane Leade	Action 9 - Andy Collins	9.1 - Define GOO LDAR requirements.	InProgress	Price, Bruce;Wright, Dugald M.
Methane Leade	Action 9 - Andy Collins	9.2 - Embed standardised LDAR programme across GOO.	InProgress	Price, Bruce;Wright, Dugald M.
Methane Leade	Action 9 - Andy Collins	9.3 - Implement find and fix LDAR programme in L48: prioritized on 30% of production in 2018/19, 60% of production in 2019/20,	InProgress	ZZPugh, Brian;ZZFagbayi, Kola
Methane Leade	Action 1 - Gordon Birrell	ACTION 1 - Develop and embed carbon price to support operational interventions consistent with good industry practice to deliver the Sustainable	InProgress	Birrell, Gordon Y;Rangel, Patricia
Methane Leade	Action 10 - Dominic Emery	ACTION 10 - Develop and implement a consistent set of Group, Segment and Regional policies and advocacy positions on methane	Completec	Emery, Dominic
Methane Leade	Action 11 - Rachel Woods	ACTION 11 - Deliver external Group-wide gas advocacy campaign and demonstrate BP's leadership on methane	InProgress	Woods, Rachel

Methane Leadei	Action 12 - Mary Streett	ACTION 12 - Develop and implement US-specific methane advocacy plan aligned with Groupwide campaign	InProgress	Streett, Mary
Methane Leadei	Action 13 - Steve Shaw	ACTION 13 - Develop and deliver internal communications plan to educate BP employees on carbon and methane science and BP's role in reducing carbon/ methane emissions	InProgress	Webster, Jonathan (Communications);Shaw, Stephen
Methane Leadei	Action 14 - Dave King	ACTION 14 - Develop and implement SLL/ Executive Education Programme to	InProgress	King, Dave J
Methane Leadei	Action 15 - Dave King	ACTION 15 - Promote methane reporting transparency	Completec	King, Dave J
Methane Leadei	Action 2 - David O'Connor / Richard Mortimer	ACTION 2 -Develop and implement plan to deliver 'Near Zero' Methane	NotStartec	O'Connor, David J;Mortimer, Richard (SUN)
Methane Leadei	Action 3 - Andy Collins / Matt Werner	ACTION 3 - Develop and implement prioritised plan to drive further reductions	InProgress	Collins, Andrew;Werner, Matthew L
Methane Leadei	Action 4 - David Lawler	ACTION 4 - Develop and implement prioritised plan to further reduce L48 methane emissions from	InProgress	ZZLawler, David
Methane Leadei	Action 5 - Andy Collins	ACTION 5 - Develop and implement prioritised influencing plan for methane emissions in non-operated JVs and other parties	InProgress	Robbie, Sayma;Collins, Andrew
Methane Leadei	Action 6 - Morag Watson	ACTION 6 - Build on blockchain project to develop accredited low emissions gas scheme for the gas value chain	InProgress	Watson, Morag S

Methane Leadeı	Action 7 - Ahmed Hashmi	ACTION 7 - Develop and implement a plan to enhance methane data accuracy and support further operational	InProgress	Hashmi, Ahmed A
Methane Leadeı	Action 8 - Andy Collins	ACTION 8 - Develop and implement a plan to enhance flare emissions data accuracy (metered	InProgress	Collins, Andrew
Methane Leadeı	Action 8 - Andy Collins	ACTION 8 - Develop and implement a plan to enhance flare emissions data accuracy (metered volumes & combustion	InProgress	Collins, Andrew
Methane Leadeı	Action 9 - Andy Collins	ACTION 9 - Design and implement a standardised Upstream Leak Detection and Repair (LDAR) programme	InProgress	Collins, Andrew
Methane Leadeı	Action 9 - Andy Collins	ACTION 9 - Design and implement a standardised Upstream Leak Detection and Repair (LDAR)	InProgress	Collins, Andrew

Due date	Completed Date	Description
30/06/2018	24/06/2019	Bruce Price
	07/08/2019	Dave King
	26/07/2018	D. King
31/12/2017	26/07/2018	D. King
30/06/2018	26/07/2018	A. Collins
06/12/2018	07/12/2018	
31/12/2018	17/01/2019	A. Hashmi

31/12/2017	26/07/2018	D. King
31/12/2017	08/10/2018	K. Fagbayi
31/12/2018	17/01/2019	
31/12/2017	16/10/2018	F. Bitar
31/12/2017	26/07/2018	A. Krieger

31/03/2019	30/03/2019	A. Krieger
31/12/2019	24/06/2019	Dave King
31/03/2018	26/07/2018	K. Fagbayi
31/12/2018	29/11/2018	

30/06/2019	21/06/2019	Clair South project considering Power from Shore as an Option. Meeting held with Gordon	
31/12/2018	03/09/2018	D. O'Connor	
31/12/2017	26/07/2018		
31/03/2018	03/09/2018	D. O'Connor	
31/12/2017	26/07/2018	D. O'Connor	
31/12/2017	26/07/2018	D. O'Connor	
	02/09/2019	D. O'Connor	

30/06/2018	06/12/2018	A. Flores	
12/12/2019		D. O'Connor	
30/06/2018	06/12/2018	Brian Povey	
31/12/2018	09/01/2019	M. Smith	
25/01/2019	09/05/2019	Action agreed at 16th October Steering Meeting	
31/12/2019		Tracker for agreed topics	
31/12/2018	09/01/2019		

	09/11/2018	
31/01/2019	26/02/2019	
31/01/2019	04/03/2019	Consultant study concluded Q42018. Business case is technically sound though
31/03/2019	07/04/2019	
		https://tasks.office.com/bp.com/en-US/Home/PlanViews/TW8JIp28gk2THTyxaHoSopYAEMmk
30/06/2019	01/05/2019	
30/09/2018	08/08/2018	Accountable: Gordon Birrell Responsible: Bruce Price
31/12/2019	11/01/2019	Accountable: Dominic Emery Responsible: Dominic Emery
30/06/2018	29/11/2018	Accountable: Dominic Emery Responsible: Dominic Emery

31/12/2018	29/11/2018	Accountable - Dominic Emery Responsible - Paul Jefferiss
01/12/2018	30/11/2018	Accountable - Mary Streett Responsible - Bob Stout
31/12/2018	09/05/2019	Accountable - Dave King / Liz Rogers Responsible - Dave King / Liz Rogers
21/03/2020		Accountable - Rachel Woods Responsible - Clare Moore-Bridger
31/12/2020		Accountable - Rachel Woods Responsible - Clare Moore-Bridger
31/12/2019		Accountable - Rachel Woods Responsible - Clare Moore-Bridger
29/11/2019		Accountable - Rachel Woods Responsible - Clare Moore-Bridger
23/03/2020		Accountable - Rachel Woods Responsible - Clare Moore-Bridger
30/09/2019		Accountable - Rachel Woods Responsible - Clare Moore-Bridger
31/03/2019	24/06/2019	Accountable - Rachel Woods Responsible - Clare Moore-Bridger

31/10/2019		Accountable - Rachel Woods Responsible - Clare Moore-Bridger
30/09/2019		Accountable - Rachel Woods Responsible - Clare Moore-Bridger
30/09/2019		Accountable - Rachel Woods Responsible - Clare Moore-Bridger
14/12/2018	30/11/2018	Accountable - Mary Streett / Dave Lawler Responsible - Bob Stout / Kola Fagbayi
14/12/2018	30/11/2018	Accountable - Mary Streett Responsible - Bob Stout / Liz Sidoti
30/11/2018	30/11/2018	Accountable - Susan Dio / Dave Lawler Responsible - Joe Ellis / Kola Fagbayi
01/10/2018	10/10/2018	Accountable - Mary Streett Responsible - Bob Stout / Liz Sidoti
31/12/2019		Accountable - Bob Stout / Kola Fagbayi Responsible - Faye Gerard
01/11/2018	10/10/2018	Accountable - Mary Streett Responsible - Joe Ellis

30/06/2018	04/09/2018	Accountable - Steve Shaw Responsible - Marisa Walker
30/09/2018	08/10/2018	Accountable - Steve Shaw Responsible - Marisa Walker
14/01/2019	16/01/2019	Accountable - Liz Sidoti / Kola Fagbayi Responsible - Maegan Clemens
31/03/2019	09/05/2019	Accountable - Steve Shaw Responsible - Steve Shaw
31/12/2019		Accountable - Dave King Responsible - Doog Wright
31/12/2018	14/01/2019	Accountable - Liz Rogers Responsible - Muhunthan Sathiamoorthy
31/03/2019	30/03/2019	Accountable - Dave King Responsible - Karen RagoonananJalim
31/12/2019		Accountable - Dave King Responsible - Karen RagoonananJalim

31/12/2018	14/01/2019	Accountable - Liz Rogers Responsible - Muhunthan Sathiamoorthy
31/12/2019		Accountable - Dave Lawler Responsible - Kola Fagbayi
30/09/2018	28/09/2018	Accountable - Dave King Responsible - Tyrone Kalpee
31/12/2018	14/01/2019	Accountable - Liz Rogers Responsible - Muhunthan Sathiamoorthy
31/12/2018	09/05/2019	Accountable - Dave King Responsible - Sue Ford
31/12/2018	27/11/2018	Accountable - Dave King Responsible - Rob O'Brien
31/12/2018	26/11/2018	Accountable - Kola Fagbayi Responsible - Faye Gerard
31/12/2019	24/06/2019	Accountable - Brian Pugh Responsible - Will Burton

31/12/2018	21/11/2018	Accountable - Liz Rogers Responsible - Alejandra Castano
31/01/2019	04/02/2019	Accountable - Liz Rogers Responsible - Muhunthan Sathiamoorthy
31/12/2018	14/01/2019	Accountable - Liz Rogers Responsible - Liz Rogers / Kola Fagbayi
31/12/2019		Accountable - Liz Rogers Responsible - Muhunthan Sathiamoorthy
30/06/2018	29/08/2018	Accountable: Richard Mortimer Responsible: Jenny Olsson
31/03/2019	03/04/2019	Accountable: Richard Mortimer Responsible: Jim Corbally
31/12/2018	16/01/2019	Accountable: Dave King Responsible: Sue Ford
31/12/2019		The Reducing Methane Best Practices (RMBP) were developed by the external Methane Guiding Principles (MGP) Initiaitve in 2018 and endorsed by the Steering Committee in January 2019. A 2019 Work Program proposal to

31/12/2019		Accountable: Kola Fagbayi Responsible: Rick Urban
28/06/2019	08/05/2019	Accountable: Aleida Rios Responsible: Cam Aitken Methane source surveys will be updated per Action 15.2 (UEC Process Engineering to support) during 4Q18. This updated data will be
30/08/2019	30/08/2019	Accountable: Aleida Rios Responsible: Cam Aitken This action follows 2.2 which will not be completed
29/03/2019	16/01/2019	Accountable: Richard Mortimer Responsible: Ed Paul
30/09/2019		Accountable: Russell Smith Responsible: Amrita Lulla

31/03/2019	16/01/2019	Accountable: Richard Mortimer Responsible: John Kennedy
31/12/2018	29/08/2018	Accountable: Richard Mortimer Responsible: Jenny Olsson
31/03/2019	16/01/2019	Accountable: Richard Mortimer and Russel Smith Responsible: John Kennedy
30/09/2019		
31/03/2019	03/04/2019	Accountable: Richard Mortimer Responsible: Jim Corbally
30/06/2019		Accountable: Matt Werner Responsible: Roger Boyce/Andy Johnston
30/06/2019		Accountable: Dave King Responsible: Doog Wright/Graeme Gordon
31/12/2018	16/01/2019	Accountable: Gio Cristofoli Responsible: Graeme Gordon

31/12/2019		Accountable: Gio Cristofoli Responsible: Graeme Gordon
31/12/2019	20/06/2019	Accountable: Kola Fagbayi Responsible: Faye Gerard
31/12/2019	20/06/2019	Accountable: Brian Pugh Responsible: Will Burton
31/12/2019	24/06/2019	Accountable: Brian Pugh Responsible: Kevin Lanan
31/12/2019		Accountable: David Lawler Responsible: Brian Pugh/Kola Fagbayi
31/12/2019		Accountable: Kola Fagbayi Responsible: Faye Gerard/Bola Ajakaye
31/12/2019		Accountable: Sayma Robbie Responsible: John Sanders
31/12/2019		Accountable: Sayma Robbie Responsible: John Sanders This action is being reviewed in light of the announced GUPCO sale

31/12/2019		Accountable: David Lawler Responsible: Kola Fagbayi
31/12/2019	04/09/2018	Accountable: Dave King Responsible: Sue Ford
31/03/2019	02/05/2019	Accountable: David Campbell Responsible: Chris Mawer
31/12/2019	07/12/2018	Accountable: Sayma Robbie Responsible: Alison Young/Rob O'Brien
31/12/2019		Accountable: Sayma Robbie Responsible: John Sanders
31/12/2018	16/01/2019	Accountable - Morag Watson Responsible - Julian Gray
31/12/2019		Accountable - Morag Watson Responsible - Julian Gray
31/12/2019		Accountable - Morag Watson Responsible - Julian Gray

31/12/2018	16/01/2019	Accountable - Morag Watson Responsible - Julian Gray
31/12/2019	08/01/2019	Accountable - Ahmed Hashmi Responsible - Ahmed Hashmi
31/12/2018	08/01/2019	Action agreed at 16th October 2018 Upstream Carbon Steering Meeting
31/12/2018	03/09/2018	Accountable - Morag Watson Responsible - Julian Gray
30/04/2019	29/04/2019	Accountable - Morag Watson Responsible - Julian Gray
31/12/2018	16/01/2019	Accountable - Kola Fagbayi Responsible - Faye Gerard
30/06/2019	28/06/2019	Accountable - Morag Watson Responsible - Julian Gray
31/12/2018	08/01/2019	Accountable - Ahmed Hashmi Responsible - Dan Touzel

30/06/2018	24/08/2018	Accountable - Ahmed Hashmi Responsible - Peter Evans
30/09/2018	24/08/2018	Accountable - Ahmed Hashmi Responsible - Peter Evans
31/12/2018	08/01/2019	Accountable - Ahmed Hashmi Responsible - Peter Evans
30/09/2019		Accountable - Matt Werner Responsible - Ian Alleyne
31/12/2019		Accountable - Andy Krieger Responsible - April Partridge
31/12/2019		Accountable - Matt Werner Responsible - Steve Beamer
31/12/2020		Accountable - Matt Werner Responsible - Steve Beamer
15/03/2019	09/05/2019	Accountable - Matt Werner Responsible - Roger Boyce

31/12/2019	Accountable - Matt Werner Responsible - Steve Beamer
31/12/2019	Accountable - Bruce Price Responsible - Doog Wright
30/06/2019	Accountable - Bruce Price Responsible - Doog Wright
31/12/2020	Accountable - Kola Fagbayi Responsible - Brian Pugh
31/12/2019	Accountable: Gordon Birrell
08/05/2019	Accountable - Dominic Emery
31/12/2020	Accountable - Rachel Woods

31/12/2019		Accountable - Mary Streett
31/12/2019		Accountable - Steve Shaw
31/12/2019		Accountable - Dave King
31/12/2020	24/06/2019	Accountable - Dave King
31/12/2019		Accountable: David O'Connor Responsible: Richard Mortimer
31/12/2020		Accountable: Andy Collins Responsible: Matt Werner
31/12/2019		Accountable: David Lawler
31/12/2019		Accountable: Andy Collins
31/12/2020		Accountable - Morag Watson

31/12/2019	An integrated plan has been developed for methane technical activity divided over 4 themes: 1. Direct Quantification 2. Continuous	
31/12/2019	Accountable - Fuzzy Bitar	
31/12/2019	RRcv90fV_EyACXi	Accountable - Fuzzy Bitar
31/12/2019	Accountable - Fuzzy Bitar	
31/12/2019	nRSMgC1nCU2AU	Accountable - Fuzzy Bitar

Comment
Included in the new Cat C digital projects tool which is currently being deployed.

As of end-2Q 2019 Upstream have delivered 3.05 Mte of SERs with a further 0.15 Mte forecast to year end. See Power BI for latest data: https://app.powerbi.com/groups/me/apps/3f1cbceb-b9cc-43dd-8e60-5477dedf1845/reports/c30f7de9-ad6e-419c-8250-9cf1258fbd09/ReportSection8cdce3857aa6c7de8689?bookmarkGuid=Bookmarkf7669711063ad9d8de
No longer relevant. Superseded by RIC target of 3.5Mte (gross) RSRs by 2025.

Alaska Energy Review completed w/c 9th November (telepresence and Skype). AGT Energy Review completed 16-21st November (site visit). North Sea (ETAP) Energy Review planned for December 9th (offshore site visit cancelled due to weather, will utilise ACE facility)

• The top 10 NOJV emitters have been identified, these collectively account for >80% of Upstream's total non-operated equity emissions. • These NOJVs have been ranked based on BP's level of influence – based on the existing relationship and exposure to other IOCs within the JV (either as operator or partner), on the assumption that other IOCs are also in action on carbon • A prioritised $100M fund agreed by Gordon and Murray on 2nd November 2018, work progressing to develop FM and governance process

Flare Destruction Efficiency Measurement – We have successfully completed testing of the Providence Mantis camera for measuring flare efficiency. To recap status: • The Mantis camera was originally designed for continuous compliance monitoring of downstream flares. As part of a JIP it performed the best out of a range of measurement systems and provided the basis upon which its measured parameter (combustion efficiency) could be correlated to the target measurand for methane intensity – destruction efficiency. • Early in 2018 the camera was evaluated as a mobile technique capable of being used to survey Upstream flares. The first round of tests in Alaska were a success with the equipment performing to specification in the field. The majority of flares exceeded the 98% destruction efficiency used in emissions calculations Angola trial: • The recent trials were

Completed - see attachment

June 5th Notes: 1. L48 committed to reducing CO2e emissions by 700,000 MT CO2e between 2017 and 2025 versus 2016 CO2e baseline inventory a. 350,000 MT CO2e to be reduced between 2017 and 2019 b. 350,000 MT CO2e to be reduced between 2020 and 2025 2. L48 will replace remaining 152 High Bleeds by mid 2019

2 successful trials of FLIR camera quantification technology (QL320) completed - technology being deployed across GOO operating regions 1H19

GtP Northern/ Southern line pressure optimisation to reduce flaring and increase gas export to ALNG: Four low flare field trials were completed over a 2 ½ year period to identify the most suitable mechanism (intervention) to reduce the volume of gas being flared. These involved adjusting flowline pressures, testing and improving compressor stability and identifying oil and gas rate optimization opportunities (including enhanced riser-based gas lift, conversion of certain gas injection

Completed - see attachment

February 27 Update: The first green completion in Oman was started on KZN 402 on 26 February 2019. After completing commissioning and the HAZOP action checklists, the well was opened at 10pm on 25 February and achieved the required parameters to export gas in less than 12 hours.

The team switched gas export to the central processing facility at 9.20am on 26 February. The well is ramping up - export of condensate is expected once a higher rate has been achieved (within 12-24 hours of gas export start). On KZN 402, the team are on target to achieve >90% of hydrocarbons to be diverted to the CPF.

Per email sent to D. King by Sue Ford on June 20th, 2019, containing a Brief for approval by Andy Collins, states, in part: "The attached proposal outlines our position for expanding the number of GOO assets in scope for reporting for 2018 from 5 to 23, bringing AGT, North Sea and Oman into

June 5th Update: Decision retired after conversation with stakeholders.

Ongoing benchmarking to strengthen emissions estimations in pre-GPO to evaluate Life of Field asset emissions. Emissions estimation has been incorporated into the VST tool and pre-GPO workbook.

GHG intensity graphs benchmarking all hopper opportunities are produced for every quarterly COO Appraisal Table. The emissions data and benchmarks have been aligned with other facility power and weight benchmarks. The benchmark data allows differentiation between direct drive and e-drive compression as well as power from shore to facilitate lower carbon option consideration in pre-GPO.

John Goldie confirmed this action can be closed as we are very much progressing the power from shore options during optimise. At the end of the year the project should be able to present a summary of the options and proposed way forward.

"GN 47-061 is already codified in MPcp V5 - CLOSED "

Closed: Use of the energy VIP is already a GPO requirement codified in the GPO HSE Practice. The energy VIP guide has been updated to ensure that energy benchmarking is conducted as part of the energy VIP workshop.

"GHG FM Governance Guide is completed and due for publication. CLOSED GPO Carbon Principles Guide provides guidance for project teams to supplement shall statements in MPcp v5 CLOSED"

June 5th Update: Update Appraisal one-pagers – to include GHG total, carbon intensity and E&S issues and risks. High priority one pagers updated for the COO-AT held at end-Nov. The rest of the Appraisal one-pagers will be updated by Q1 2018. For an update on inclusion of GHG intensity in FM processes see action 3.1. For an update on GHG inclusion in ADPs see action 3.2.

Closed: One page position paper developed and issued outlining options and recommended way forward including alignment with Shell to influence the Operator.

In addition, the Region ran a Carbon Workshop to identify further potential lower carbon options for the Region, and has developed a Regional carbon plan.

Marked as complete based on updates and agreement to create new ongoing action (TBD)

Keeping this action open following discussion with action owner and pushing back the due date until the completion of all the fields trials of flare combustion efficiency using the Mantis VISR camera.

Final document, Guidance Note 14 - GHG Governance, was published to the GIAAP intranet site at the end of November following GPO input/review.

ADPs and Regional Development Plans now require GHG data. Identification of CCUS appraisal opportunities now screened at Appraisal Table during project capital allocation discussions.

Complete - see attached slides provided as part of related Meeting Action to "Create a one page strategy on potential opportunities for CCUS in Alaska relating to 45Q and California regulations"

Green Completions and Carbon Abatement Fund to be discussed at 6th Devember meeting. Xpansiv update and gas advocacy will covered early in 2019

Complete and the FM is now with Gordon and will be shared with UET during the January UEM

Work ongoing to define govenance process, but will simply be called the "Upstream Carbon Fund". Action marked as complete

Confirmed alignment at this stage of the project with Shell

2 slides to illustrate options and relative cost and impact on emissions

The Upstream Carbon Workshop was held on Wednesday 24th April, 2019 and included a cross section of attendees from Group, Upstream (across all three Functions) and Downstream. The output of the workshop was endorsement of the three workstreams going forward that will further define the

Action completed: revised EEM GN-33 process issued in December 2018: The application of carbon prices based on jurisdiction and BP's share of risk in a project has been removed. Carbon prices will apply to all projects based on BP's ownership interest in the project. Changes to Bluebook are effective for projects seeking endorsement from 23 January 2019. An operational carbon fund is proposed to be put in place for Upstream from 2019 (~$100M over 2 years) to drive SER delivery - this will be managed by a separate governance process under development by Upstream HSE.

Update on behalf of Dominic Emery: Action now closed through a combination of: - GHG Forecast now embedded in Group Planning Process to get Group GHG projection from Segment roll-up; - Zero Net Growth Group Practice developed and in final draft ready for issue by end-2018, which addresses how net growth, offset requirement and carry-forward are determined annually and projected forward to inform IST offset portfolio, and; - Decision made to amend EEM GN-33 / Blue Book to require

Update on behalf of Dominic Emery: The IMWG process has been refreshed with a revised Terms of Reference and renamed the PAWG - Policy and Advocacy Working Group. Lamar remains chair and Gordon Birrell is a member for Upstream. First meeting of the PAWG will be 14th December.

Received and analyzed Exxon's draft Policy Framework recommendation to all Guiding Principles members. US C&EA submitted feedback to Sue Ford on 11/28 (see attached).

Closing action as per Sonna's comments - would be helpful to get update on how Gardiner is progressing on the broader activity though (and Sue has also been doing some mapping of external initiatives)

Bernard Looney took part in a methane-specific panel at CERA Week. He will speak at BNEF and at LNG Shanghai, sharing messaging around gas as well as emissions reductions.

The methane emissions tech showcase on 9 September in Sunbury will include a variety of visual content which can then be shared on digital channels.

The final methane round table in the series will take place in Brussels on 29 April.

The Gas and Methane campaign plan sets out a number of ways to use BP's major Upstream projects to communicate our gas advocacy messaging, whilst showcasing what the business is doing to tackle methane. In Q1 2019 we are planning is to focus on developing a "digital press tour" focusing on The emissions tech showcase event for media will take place on 9 September in Sunbury, and this will include information about technology trials.

To confirm we have decided to focus on communicating BP technology trials as well As the EDF collaboration. We would like to close this task to reflect that.

As we understand it, the main paper on methane leakage is in peer review. We have an action to discuss this with Liz Rogers.

We have now completed filming of methane technologies in the field in L48, Khazzan and Papa Stour. This will feature as part of the virtual reality experiences at the showcase on 9 September, as well as being catalogued in BPTV library for other internal and external uses.

We plan to create a press release for the showcase event on 9 September, which will summarise BP's action and commitments on methane. This will also be communicated to media at the showcase itself.

- The Model Methane Regulation has been completed. Please refer to Chapter 5 in the US Methane Campaign document attached. - US C&EA review and approval expected w/c Dec 3rd.

2018 version of the US Methane campaign document complete. See attached final version of the document.

- BP has strengthened its participation in API Environmental Partnership (EP) group. Senior Air Expert (Dana Wood, BPX) and Senior Director of HSE policy (Jim Nolan, BPA) now attend monthly calls and participated at annual EP conference meeting. - This arrangement will continue to allow BP to lead in coalition with the Industry in the US, by exchanging learnings on methane best practices. - For 2019, Liz Sidoti (Head of U.S. Comms, BPA) who is currently the chair of API's Communications committee,

Delivered. High level actions include provide better clarity to the public around the 0.2% intensity target and evaluate options to bring along the rest of industry to address methane emissions in the US. We will think about the possibility of doing another US event in 2019, possibly in Houston.

June 2019 Update: Draft Advocacy Plan has been drafted and is being internally reviewed.

After review and with approval from Susan Dio, this action is being discontinued. Rationale is there are already sufficient mechanisms and tools available to the team - both internal and external - for picking up emerging, serious proposals methane regulation proposals across the US. This includes our own

The Upstream methane employee communications plan has been implemented. The significant deliverables to date include: - RP/HOF briefing pack - Upstream AET hub webpage (hosts all Upstream-related AET content) - Webcast: 'Getting real on carbon' (Panel included Gordon Birrell, Shirley Oliveira, Gio Cristofoli and Russell Smith) - AET messages and materials in Team Talk for

A L48 internal methane communication plan aligned with Segment's communication plan is completed and approved by Kola Fagbayi.

cMore challenge and $100M fund successfully launched. Low Carbon category also included in 2019 Helios. Future cMore system updates to include Low Carbon and/or Sustainability benefit category as standard in all challenges. Action closed.

This action will be addressed through the MGP Executives / Masterclass Training delivery that SGI / Imperial College are delivering as part of the MGPs Tool Kit, in support of the Reducing Methane Emissions: Best Practices, which will be adopted and embedded within the Upstream.

Action complete

This action identified the target audience within the Upstream GLL and SLL population to undergo the Education Program for embedding a culture of low carbon across the Upstream. The Education Program will require different groups within this audience to undergo different levels of training, commensurate with their role within the Upstream.

The SLL and Executive Methane Education Programme will be delivered via the ongoing work programe in the Methane Guiding Principles external initiative. Under the MGPs an Implementation Plan for the 8 Reducing Methane Emissions: Best Practices is being developed which includes a Global Methane Toolkit and an Outreach Programme for Executives (1/2 a day) and a Master Class for Operational Leaders (1 Day.) The former is for CEOs/COO; the latter for VP Ops/AOMs audiences. Trials for both

Working with OMSA team on the "Alpha" script with view to finalising in late January - noting some changes to the script to the climate sections that were noted in December review. The methane "video" is a modified version of the Group Leader methane video and will be part of the OMSA Climate module (not standalone). Training available for roll out in April 2019

June 2019 Update: The BPX RC&E has begun environmental training in June to help progress the zero methane emissions mindset. GHG Comms Plan to be developed in 3Q2019.

A frame was developed - see attached - and circulated for comment / edit and the attached is the agreed frame (no comments)

As per comment on the 21/11 this specific action is either complete or needs to be re-worded to be more explicit as the near zero OGCI plan is a multi-year, multi-activity plan and not one specific item or deliverable. The timeline will be 2020+

Action completed as surveys now received from North Sea. Recommend a follow-on action to update the methane calculations for the surveyed assets based on the results of the surveys.

Action Complete - a methodology comparison has been completed for Tangguh (see attached) which shows the US methodology actually yields lower overall methane emissions, largely due to the UK methodology applying more conservative assumptions to methane emissions from combustion sources (flaring and energy). The UK and US methodologies can largely be traced back to the API GHG

5th September Update: The L48 RCE team conducted a peer assist with Upstream HSE and Central S&OR members on May 21, 2018. The L48 RCE Team has established an annual review cycle for the internal GHG calculations.

June 2019 Update: For most inputs to the calculations, BPX uses a data aggregation and validation tool that collects data from multiple BPX systems (work order management, Aquarius, SAP Production & Revenue Accounting), aggregates it into one database, checks for data gaps, and compares it with expected values. Using this logic corrects the data. Episodic events such as gas releases, leak surveys,

After reviewing the recent updates to the reporting requirements, we found that the following text is sufficient for completing this action: (Section 6.1 Hierarchy) "The Annexes often recommend a hierarchy of possible approaches for each reported parameter. Where possible, those methods higher up in the hierarchy (more direct measurement) should be used in preference to those lower down, as minimizing the potential inaccuracy enables easier justification of emission reductions year on year. It

Initial draft updated following SME feedback

Action completed based on the update provide don 22/11 and assuming the alignment with the OGCI methodology and GBG) is sufficient - noting BP has now changed methodology to align with OGCI.

The timeline needs to reflect this is a detailed effort spanning a long period of time and linked to multiple activities with parties outside of BP

GPO Carbon principles document has been updated and makes a specific statement early on in the document to state that carbon also includes methane. Document is final awaiting legal review prior to issuing.

See below PMCS actions that are in place. Engage with suppliers on low carbon by GFH product team. Valves: GFH-AT-000002-A-0011 Inst Controls Electrical: GFH-AT-000002-A-0014 Mech Process Materials: GFH-AT-000002-A-0013 Global Rotating Equipment: GFH-AT-000002-A-0012 – this

The Reducing Methane Best Practices and associated 2019 Implementation Plan have been approved by the Methane Guiding Principles Steering Committee (11th January 2019). BP will lead the development of a global tool kit to accelerate implementation across the natural gas value chain. This will be done in collaboratin with Shell who are developing a Methane Outreach Program. Education and Awareness are key components of successful implementaion. BP Upstream will embed the

The Guides (12-15 pages) for the 8 Reducing Methane Emissions Best Practices will be developed by SLR Consulting International and the University Texas (Austin) as part of the 2019 Work Programme under the Methane Guiding Principles external initiative. Synopses (2-3) pages will also be produced for each Best Practice. The Guides will be available at the end of 3Q 2019. These will be incorporated into the planned Upstream E&S Practices and Upstream Carbon Guide by end 4Q 2019.

June 2019 Update: On track. An updated Facility Design Manual has been drafted and is currently under review.

Latest data received from GOO and reviewed. Summary in attached PowerPoint. Action 2.3 will now be initiated.

This action has been completed. A list of technologies against key sources of methane emissions identified in action 2.2 has been generated with cross reference to appropriate practice, specs and/or guidance (see attached spreadsheet). • This table will be added as a "GPO Low Carbon Checklist" an appendix to the GPO Low Carbon Option Evaluation Guide to be developed this year. It can then be BP will request the technical work fronts identified are included on the next IOGP Standards Committee (SC) meeting agenda. This action is being closed on the basis of the completion of the review, identification of potential work fronts, and addition to IOGP SC agenda.

Extending this action out to end 3Q to allow time for completion. Activities underway in progress to support this action are: • Meeting with Group S&OR/ UHSSE/ UEC to discuss best benchmarks for methane performance (3rd April) • Update VST tool/ rapid screening workbook with methane intensity calculation (current backlog item for the emissions tab). • Determine best place to report methane benchmarking (e.g. Appraisal Table graphs, benchmarking report at end of CD, etc.). • Ensure alignment with wider activities on methane guiding principles implementation.

Review complete. Low emissions equipment will not be added to JIP33 per se, rather the focus will be on improving equipment reliability through expanding our standardisation efforts. Formal kick-off of the JIP33 steering committee is on 31st Jan. Richard Mortimer is going to chair the committee. The drive to improve the sourcing of low emission equipment is being pursued through actions 2.9 and 2.10.

GPO Carbon Principles Plan - Section 7.4.3.5 – Start up and early operations (Sub Plan 20) states that " Start-up flaring should be minimised as far as possible in the start up methodology and sequence, any significant changes to forecast start up flaring should be communicated an approved"

An update to the last comment below... A second action, 2.8b, will now not be raised and tracked through the Methane Leadership plan. The second action, for "UEC to frame up a focus area on well flowback considerations and undertake the focus area work", has already kicked off and will be managed and tracked through the GPO-UEC Focus Area process, which is the normal mechanism for tracking such work. In the spirit of simplification we have therefore decided not to track this in two places and will therefore not add the additional action here.

Russell Smith requested that this action be postponed to end 3Q 2019 at the last Upstream Carbon Steering Committee meeting as there has been several changes in AGM and AM personnel in GCD and the appraisal management organisation needs to get through this transition period before updating the AM Guide.

See below PMCS actions that are in place. Engage with suppliers on low carbon by GFH product team. Valves: GFH-AT-000002-A-0011 Inst Controls Electrical: GFH-AT-000002-A-0014 Mech Process Materials: GFH-AT-000002-A-0013 Global Rotating Equipment: GFH-AT-000002-A-0012 – this has been completed GHG operational performance data specifications (note - not relevant to ICE product lines). Valves: GFH-AT-000002-A-0015 MPM: GFH-AT-000002-A-0017 GRE: GFH-AT-000002-A-0016

Angola PSVM LPGC re-alignment work package was completed on the 3rd May 2019, pre started-up check on schedule for w/c 6th May

Closed to be embedded with Upstream Carbon Guide.

central & frontline leadership behaviours, embedded processes and performance management outcomes agreed The detailed plan has been developed & discussed in AOM workshop; the plan has been reviewed and approved by HoF

1Q19: COO/ HoF regional expectations communication; develop simple & straightforward video training materials for frontline operations; update production reporting tools update (OMS 6.1/8.1: deviations from flaring design) 2Q19: monitor progress (successes/ challenges); add flaring expectations to Site Manager calls/ workshop

June 2019 Update: BPX evaluated the use of zero emission solar heat trace pumps to eliminate gas pneumatic heat trace pumps. BPX installed 246 solar heat trace pumps (BPX has 4 additional solar pumps held in reserve in the event extra heat trace capacity is needed at a site) and eliminated 470 gas pneumatic heat trace pumps as of January 31, 2019 in the NBU. BPX evaluated the use of solar powered controllers, and they were not cost effective.

June 2019 Update: All high bleed controller replacements located at wellsites have been completed. Due to pending divestiture, high bleed controller replacements (21 controllers) at plants and treating facilities will not be completed.

June 2019 Update: BPX installed 246 solar heat trace pumps (BPX has 4 additional solar pumps held in reserve in the event extra heat trace capacity is needed at a site) and eliminated 470 pneumatic pumps in the NBU. Kelvin has been deployed on 900 wells across the NBU. Kelvin achieves optimal well performance by modeling interactions of multiple variables and using model output to create real time algorithmic controls that increase production and reduce atmospheric venting associated with liquids unloading. Based on initial 120 well deployment achieves 36% decrease in well venting events, 6.5% increase in production, resulting in $881K current realized value on these first wells. And results in fewer trips to manually unload wells reduces drive time and personnel exposure.

June 2019 Update: Solar pump installations were completed (246 installations as of January 31, 2019 and 4 solar pumps held in reserve in the event extra heat trace capacity is needed at sites), and Project Kelvin has been deployed on 900 wells across the NBU.

Potential crowd-sourcing and other creative solutions to the pneumatics and distributed power challenges are being discussed, such as University Partnerships, consortiums, working with industry groups, and working with BP Group and Upstream). Engagement of the workforce to build a carbon

on track

on track

June 2019 Update: RC&E developing a presentation identifying significant OBO GHG reduction opportunities. Recommendations will follow.

The World Bank contacted BP on 27th Feb requesting our support and cooperation on gas flaring reduction in Iraq. BP Iraq (Regional President) responded August 2018 reinforcing are continued commitment to reducing flaring in our operations and stated that as a founding member of the GGFR partnership we remain engaged in the GGFR's Steering Committee and Work Program. We also stated Chris/Karen Well done. Regards Gordon

Methane forecast has been incorporated into overall Upstream GHG forecast in Power BI. NOJV methane and total GHG forecasts provided to NOJV team. Forecasts will continue to be refined, but this specific action is now closed.

The review of current portfolio is complete. We are now working on next steps which is mainly starting with 2-3 Upstream POCs and continuing to setup the Master License agreement in parallel (this is tracked in point 6.2)

The framework MSA is at the final stages of agreement between BP and Xpansiv and it expected to complete anytime soon at the time of writing this (2nd May)

Decisions on the DIO/BPX joint plan have been deferred whilst BPX focuses on absorbing its acquisition of BHP Billiton assets. Regarding capturing satellite imagery of OMAN, given the location and priority is given to the US Government, there is a high probability of being bumped. The DIO team has been in discussion with Digital Globe as to how to improve the chances of being prioritized and not being bumped. (we have now got 1 successful capture in 4 attempts)., A plan has been created to improve the Satelite detection and quantification algorithms of Satelytics based on collecting imagery from a number of BP owned locations with different backgrounds e.g. snow, scrub, desert, water etc.

Key locations for testing and first generation deployment have been identifed for each of the core technologies under consideration. Please refer to monthly report in the Action 7 header for details and ongoing updates.

Vision statement to be finalised at the 22Jan meeting

DIO with support from L48 HSE and Wamsutter operational team completed field trials including executing a number of controlled methane releases of ground (mAIRsure, Rebellion and Providence), flight (Baker Hughes and Precision Hawk) and orbit (Satelytics and Geospatial insights) technologies. Full report is available as an attachment

Proposal circulated reviewed and updated.

L48 has a LDAR recommendation based on completed trials that will be reviewed through L48 governance. No single technology or platform excelled at all criteria, however, drones fitted with a methane laser and optical gas imaging (OGI) camera combination are currently the best fit for BPX.

Plan created, reviewed and agreed with Upstream Technology - Peter Evans. Upstream Leadership methane plan agreed to continual monitoring definition and use of OneMap as the single repository for all output data.

We have successfully completed testing of the Providence Mantis camera for measuring flare efficiency. To recap status: • The Mantis camera was originally designed for continuous compliance monitoring of downstream flares. As part of a JIP it performed the best out of a range of measurement systems and provided the basis upon which its measured parameter (combustion efficiency) could be correlated to the target measurand for methane intensity – destruction efficiency. • Early in 2018 the

A full heat map of technical activities currently underway was completed in June 2018 to initiate cross-team working under the integrated technical plan. As projects and opportunities unfold it is being updated periodically to track progress.

A cross functional workshop was held in June to align processes and projects between the various stakeholders involved in the delivery and deployment on technical activities in support of the methane leadership plan. Follow-on actions comprise regular meetings to co-ordinate projects, provide progress updates and share intelligence on technologies entering the market

All processes for delivering technology needs for methane management are now fully integrated

Plan in place to deliver by 3Q 2019 - due date amended to 30/09/2019

Contractor meetings held with Expro (1 meeting) and Schlumberger (2 meetings) to understand contractor approach. Follow up meetings planned internally with David Newman - UEC metering specialist. Outputs of meetings have been documented. Flare camera deployment planning is underway. GWO measurements will be taken in Oman in 3Q 2019. Planning efforts are being led by upstream HSE with support from the above region functional teams and regional representatives. Subsequent locations are likely to include AGT and AsPac however the scheduling of the camera deployment will determine whether measurements from well testing in these regions can be taken

- PSVM: Vendor BHGI is on schedule to arrive on PSVM on Monday the 13th of May to service the two flare gas flowmeter system (spares probes are on standby at Sonils on target to be shipped this week commencing the 6th of may 2019) - GtP: Vendor Fluenta visited in April and issued a report. Probes have been cleaned and were in relatively good state. HP fare probe is functional and is providing reading, the LP flare probe's cable was obsolete, vendor will be manufacturing a dedicated spare cable replacement as this model is no longer manufactured.

due date needs amending to reflect full workscope, and to follow-on/ align with 8.1/ 3/ 4

Due date extended to end 2Q 2019 to allow for time to incorporate learnings from technology deployment (e.g. QL320, GCI)

June 2019 Update: BPX has successfully implemented an LDAR program on sites that will be divested for approximately ~50% of production. BPX has completed LDAR technology trials and chosen drones equipped with a methane laser and optical gas imaging camera. BPX is currently using the drone on 100% of the production of newly aquired assets to find and fix leaks.

The Methane Emissions Policy attached will be replaced by the IMWG Methane Final BP Position. This represents the Group Position on Methane, with the expectation that it will be appropriately adopted across Segments and Regions.

See milestones updates...all are in progress, some are already complete.

2018 plan delivered. 2019 plan in development and will run throughout the year.

Methane reporting t5ransparency is being progressed through various means: 1. Trials and pilots have been completed and currently various technology are being deployed across Upstream Regions for methane detection, continuous monitoring and measurement. Some of these include - Mantis camera with VISR technology used to confirm flare combustion efficiency in Angola and planned for AGT, Oman and Indonesia before end 2019; Rebellion GCI Camera for 24/7 methane emissions monitoring across site deployed in Oman and currently underway for Trinidad and Alaska; QL320 Emissions Quantification technology deployed in North Sea and AGT and currently underway for Trinidad, Alaska, Oman and Indonesia; drone mounted survey completed for BPX and North Sea 2

Glen Lyon: FGR remains a key commissioning objective, but delayed from 3Q18 due to sand & gas management issues & lack of stable operations; latest estimate is for FGR commissioning is 1H19;
PSVM: LP compressor restarted Sep18, initially estimated to be ~12mmscfd; SER TBD (qualification/

Refer to monthly reports (attached) for details

Plan Nam	Task Title	Bucket
Carbon R	1.1 Develop and implement a mechanism to i	Reduce current GHG emissions
Carbon R	1.10 Deliver 3 Mte Sustainable Emission Redu	Reduce current GHG emissions
Carbon R	1.11 Gain approval for new Upstream RSR tar	Reduce current GHG emissions
Carbon R	1.12 Complete energy reviews for 3 GOO asse	Reduce current GHG emissions
Carbon R	1.13 Identify highest OBO contributors to BP's	Reduce current GHG emissions
Carbon R	1.14 Develop SER economic evaluation metho	Reduce current GHG emissions
Carbon R	1.2 Evaluate and trial technologies for improv	Reduce current GHG emissions
Carbon R	1.3 Quantify the impact of plant reliability on	Reduce current GHG emissions
Carbon R	1.4 Evaluate options for methane emission re	Reduce current GHG emissions
Carbon R	1.5 Pilot methane identification and quantific	Reduce current GHG emissions
Carbon R	1.6 Evaluate technical options for reducing fla	Reduce current GHG emissions
Carbon R	1.7 Produce paper outlining the feasibility and	Reduce current GHG emissions
Carbon R	1.7a Trial of green completions in Oman in 1Q	Reduce current GHG emissions
Carbon R	1.8 Assess whether to include all GOO assets i	Reduce current GHG emissions
Carbon R	1.9 Seek consent through L48 governance pro	Reduce current GHG emissions
Carbon R	2.1 Conduct emissions benchmarking at Conc	Reduce future GHG emissions
Carbon R	2.10 Consider power from shore options for C	Reduce future GHG emissions
Carbon R	2.2 Require that projects are developed in acc	Reduce future GHG emissions
Carbon R	2.3 Conduct energy benchmarking for major p	Reduce future GHG emissions
Carbon R	2.4 Develop and implement a mechanism for	Reduce future GHG emissions
Carbon R	2.5 Develop & implement a Carbon Intensity t	Reduce future GHG emissions
Carbon R	2.6 Consider the GHG emissions profile as par	Reduce future GHG emissions
Carbon R	2.7 Evaluate lower carbon emission options fc	Reduce future GHG emissions
Carbon R	2.8 Undertake appraisal work to assess the te	Reduce future GHG emissions
Carbon R	2.9 Using improved flare combustion efficienc	Reduce future GHG emissions
Carbon R	3.1 Develop and implement a mechanism to i	Transition the Upstream Portfolio
Carbon R	3.2 Develop a process to build consideration c	Transition the Upstream Portfolio
Redacted - First Amendment		
Carbon R	Agreed topics for future Steering Meetings	Meeting Actions
Carbon R	Carbon abatement fund FM and draft governa	Meeting Actions
Carbon R	Check whether GOO Flaring Policy (in develop	Meeting Actions
Carbon R	Consider a new name for the Carbon Abatem	Meeting Actions
Carbon R	Consider discussion on ETAP power from shor	Meeting Actions
Carbon R	Create a one page strategy on potential oppo	Meeting Actions
Carbon R	Deliver Methane Leadership Plan actions	Leadership in methane
Carbon R	Plan an Upstream Carbon Workshop during 1H	Meeting Actions
Redacted - First Amendment		
Methane	1.2 Roll out carbon price approach across Gro	Action 1 - Gordon Birrell
Methane	1.3 Develop Group-level carbon forecast and p	Action 1 - Gordon Birrell
Methane	10.1 - Refresh the IMWG purpose and process	Action 10 - Dominic Emery
Methane	10.2 - Align BP's methane advocacy principles	Action 10 - Dominic Emery

Methane 10.3 - Review and make recommendation on t Action 10 - Dominic Emery
Methane 11.1 - Deploy leaders to tell the gas story and Action 11 - Rachel Woods
Methane 11.10 - Develop a cross-industry methane sur Action 11 - Rachel Woods
Methane 11.2 - Create agenda setting content to drive t Action 11 - Rachel Woods
Methane 11.3 - Pro-actively engage with stakeholders b Action 11 - Rachel Woods
Methane 11.4 - Leverage milestones on BP's most signif Action 11 - Rachel Woods
Methane 11.5 - Announce technology partnership(s) an Action 11 - Rachel Woods
Methane 11.6 - Develop an open innovation challenge t Action 11 - Rachel Woods
Methane 11.7 - Publish independent data on the metha Action 11 - Rachel Woods
Methane 11.8 - Run media/stakeholder visits to demon Action 11 - Rachel Woods
Methane 11.9 - Show action in the business by sharing p Action 11 - Rachel Woods
Methane 12.1 - Create model framework for Methane F Action 12 - Mary Streett
Methane 12.2 - Create US Methane Campaign, inclusive Action 12 - Mary Streett
Methane 12.3 - Agree BP's level of leadership participat Action 12 - Mary Streett
Methane 12.4 - Host US focused stakeholder event with Action 12 - Mary Streett
Methane 12.5 - Build strategy to advocate for improven Action 12 - Mary Streett
Methane 12.6 - Recommend fit-for-purpose tracking to Action 12 - Mary Streett
Methane 13.1 - Develop Upstream methane employee Action 13 - Steve Shaw
Methane 13.2 - Implement Upstream methane employ Action 13 - Steve Shaw
Methane 13.3 - Develop and implement L48 internal m Action 13 - Steve Shaw
Methane 13.4 - Develop approach to encourage emplo Action 13 - Steve Shaw
Methane 13.5 - Develop Upstream specific methane eL Action 13 - Steve Shaw
Methane 14.1 - Develop SLL/Executive education progr Action 14 - Dave King
Methane 14.2 - Identify and agree target audience (min Action 14 - Dave King
Methane 14.3 - Develop and implement plan for SLL/ E Action 14 - Dave King
Methane 14.4 - Develop OMS Academy module. Action 14 - Dave King
Methane 14.5 - Develop and implement 'zero methane Action 14 - Dave King
Methane 15.1 - Develop and agree the key focus areas f Action 15 - Dave King
Methane 15.10 - Work with industry partners (e.g. OGC Action 15 - Dave King
Methane 15.2 - Review and update Upstream methane Action 15 - Dave King
Methane 15.3 - Conduct comparison of US with non- US Action 15 - Dave King
Methane 15.4 - L48 Emission Inventory Improvement: H Action 15 - Dave King
Methane 15.5 - Ensure accuracy of data in L48's system Action 15 - Dave King
Methane 15.6 - Update Group reporting guidelines to ir Action 15 - Dave King
Methane 15.7 - Develop briefing to support considerati Action 15 - Dave King
Methane 15.8 - Work with trade associations (GBG, OG Action 15 - Dave King
Methane 15.9 - Work with industry partners (e.g. OGCI) Action 15 - Dave King
Methane 2.1 Revisit GPO Carbon Principles and include Action 2 - David O'Connor / Richard Mort
Methane 2.10 - GFH (Global Facilities Hardware) to req Action 2 - David O'Connor / Richard Mort
Methane 2.11 - Lead development of Methane Reducin Action 2 - David O'Connor / Richard Mort
Methane 2.11a Adopt Reducing Methane Best Practice Action 2 - David O'Connor / Richard Mort
Methane 2.12 - Update L48 Facility Design Manual (FDM Action 2 - David O'Connor / Richard Mort

Methane 2.2 Review output from GOO focus area on cu	Action 2 - David O'Connor / Richard Mort
Methane 2.3 - Assess and recommend the best availabl	Action 2 - David O'Connor / Richard Mort
Methane 2.4 - Review actions from other relevant indu	Action 2 - David O'Connor / Richard Mort
Methane 2.5 - Benchmark and internally report the met	Action 2 - David O'Connor / Richard Mort
Methane 2.6 - Review inclusion of low emission (CO2 ar	Action 2 - David O'Connor / Richard Mort
Methane 2.7 - Revisit GPO carbon principles to include	Action 2 - David O'Connor / Richard Mort
Methane 2.8 - Define process to integrate well flow-bac	Action 2 - David O'Connor / Richard Mort
Methane 2.8a Update the Appraisal Management Guid	Action 2 - David O'Connor / Richard Mort
Methane 2.9 - Engage with suppliers on low carbon (me	Action 2 - David O'Connor / Richard Mort
Methane 3.1 Agree and implement plan to enable (Ang	Action 3 - Andy Collins / Matt Werner
Methane 3.2 Develop Segment Flaring Practice to furth	Action 3 - Andy Collins / Matt Werner
Methane 3.3 Develop plan to embed operational minds	Action 3 - Andy Collins / Matt Werner
Methane 3.4 Implement plan to instil operational mind	Action 3 - Andy Collins / Matt Werner
Methane 4.1 - Evaluate additional remote power optior	Action 4 - David Lawler
Methane 4.2 - Replace all High Bleed Controllers in L48.	Action 4 - David Lawler
Methane 4.3 - Complete NBU Pneumatic Pump & Liquic	Action 4 - David Lawler
Methane 4.4 - Select technologies from above trials anc	Action 4 - David Lawler
Methane 4.5 - Use crowd-sourcing or other creative wa	Action 4 - David Lawler
Methane 5.1 - Develop plan to seek to influence PAE to	Action 5 - Andy Collins
Methane 5.2 - Develop plan to seek to influence GUPCC	Action 5 - Andy Collins
Methane 5.3 - Build L48 NOJV and other business partn	Action 5 - Andy Collins
Methane 5.4 - Develop strategy to influence flaring per	Action 5 - Andy Collins
Methane 5.5 - Develop plan to encourage Rosneft to joi	Action 5 - Andy Collins
Methane 5.6 - Develop process to generate robust fore	Action 5 - Andy Collins
Methane 5.7 - Equip NOJV Business Managers to be abl	Action 5 - Andy Collins
Methane 6.1 - Review current portfolio already using xF	Action 6 - Morag Watson
Methane 6.2 - Identify and engage suitable partners (in	Action 6 - Morag Watson
Methane 6.3 - Work with the Global Environmental Pro	Action 6 - Morag Watson
Methane 7.1 - Develop a plan to use analytics to identif	Action 7 - Ahmed Hashmi
Methane 7.10 - Identify suitable test sites in BP for trial	Action 7 - Ahmed Hashmi
Methane 7.11 Develop a high-level vision statement for	Action 7 - Ahmed Hashmi
Methane 7.2 - Complete full stack test (Ground, Flight &	Action 7 - Ahmed Hashmi
Methane 7.3 - Deliver proof of concept field trial for drc	Action 7 - Ahmed Hashmi
Methane 7.4 - Leak Detection & Quantification Trials: C	Action 7 - Ahmed Hashmi
Methane 7.5 - Develop an upstream prioritised plan to a	Action 7 - Ahmed Hashmi
Methane 7.6 - Identify and trial at a site technology to il	Action 7 - Ahmed Hashmi
Methane 7.7 - Complete heat map of methane related t	Action 7 - Ahmed Hashmi
Methane 7.8 - Lead cross functional workshop to agree	Action 7 - Ahmed Hashmi
Methane 7.9 - Finalise integrated methane technology p	Action 7 - Ahmed Hashmi
Methane 8.1 - Evaluate flare uncertainty (metering and	Action 8 - Andy Collins
Methane 8.2 - Develop a plan to evaluate flare uncertai	Action 8 - Andy Collins
Methane 8.3 - Define flare metering performance requi	Action 8 - Andy Collins

Methane 8.4 - Define flare combustion performance re	Action 8 - Andy Collins
Methane 8.5 - Repair non-functioning flare meters in Ar	Action 8 - Andy Collins
Methane 8.6 - Develop plan to deliver flare metering an	Action 8 - Andy Collins
Methane 9.1 - Define GOO LDAR requirements.	Action 9 - Andy Collins
Methane 9.2 - Embed standardised LDAR programme a	Action 9 - Andy Collins
Methane 9.3 - Implement find and fix LDAR programme	Action 9 - Andy Collins
Methane ACTION 1 - Develop and embed carbon price t	Action 1 - Gordon Birrell
Methane ACTION 10 - Develop and implement a consist	Action 10 - Dominic Emery
Methane ACTION 11 - Deliver external Group-wide gas a	Action 11 - Rachel Woods
Methane ACTION 12 - Develop and implement US-speci	Action 12 - Mary Streett
Methane ACTION 13 - Develop and deliver internal com	Action 13 - Steve Shaw
Methane ACTION 14 - Develop and implement SLL/ Exe	Action 14 - Dave King
Methane ACTION 15 - Promote methane reporting tran	Action 15 - Dave King
Methane ACTION 2 -Develop and implement plan to de	Action 2 - David O'Connor / Richard Mort
Methane ACTION 3 - Develop and implement prioritisec	Action 3 - Andy Collins / Matt Werner
Methane ACTION 4 - Develop and implement prioritisec	Action 4 - David Lawler
Methane ACTION 5 - Develop and implement prioritisec	Action 5 - Andy Collins
Methane ACTION 6 - Build on blockchain project to dev	Action 6 - Morag Watson
Methane ACTION 7 - Develop and implement a plan to a	Action 7 - Ahmed Hashmi
Methane ACTION 8 - Develop and implement a plan to a	Action 8 - Andy Collins
Methane ACTION 8 - Develop and implement a plan to a	Action 8 - Andy Collins
Methane ACTION 9 - Design and implement a standardi	Action 9 - Andy Collins
Methane ACTION 9 - Design and implement a standardi	Action 9 - Andy Collins

Progress	Assigned	Due date	Descriptic	Completed date	Completed by	Task Id
Complete	Price, Bru	30/06/2018	Bruce Pric	24/06/2019	RagoonananJalin	Y3hTRWR0WU
Complete	King, Dave J		Dave King	07/08/2019	O'Brien, Robert	6wLIKvF0MEuN
Completed			D. King	26/07/2018	O'Brien, Robert	j1dzdhMlw0um
Completed		31/12/2017	D. King	26/07/2018	O'Brien, Robert	x1HD-UqTOU6
Completed		30/06/2018	A. Collins	26/07/2018	O'Brien, Robert	8Hd0QZo_a06y
Complete	O'Brien, R	06/12/2018		07/12/2018	O'Brien, Robert	iDcldwxnCEunB
Complete	Touzel, Da	31/12/2018	A. Hashm	17/01/2019	Evans, Peter	MqFTFBkDs0SX
Completed		31/12/2017	D. King	26/07/2018	O'Brien, Robert	vEaVUsdCOUiw
Complete	ZZGerard,	31/12/2017	K. Fagbayi	08/10/2018	ZZGerard, Faye	LH2wk7rPgESF
Complete	Touzel, Da	31/12/2018		17/01/2019	O'Brien, Robert	2AR-U8ERtUKlr
Complete	Willis, Ste	31/12/2017	F. Bitar	16/10/2018	Wright, Dugald M	1PKqQV6-5kmx
Completed		31/12/2017	A. Krieger	26/07/2018	O'Brien, Robert	eyg9rIDmjUKCu
Complete	Krieger, A	31/03/2019	A. Krieger	30/03/2019	White, Daniel	mPTh4kIs7EGs
Complete	King, Dave	31/12/2019	Dave King	24/06/2019	RagoonananJalin	fDjA0MTbsk2a
Completed		31/03/2018	K. Fagbayi	26/07/2018	O'Brien, Robert	KD50T3HAX0yY
Complete	O'Connor,	31/12/2018		29/11/2018	Olsson, Jenny CM	FMcwQ96Z3ke
Complete	Goldie, Jo	30/06/2019	Clair Sout	21/06/2019	Stileman, Tim	0vyTsVGeUUKd
Complete	O'Connor,	31/12/2018	D. O'Conr	03/09/2018	Olsson, Jenny CM	YasDIpV0Okyag
Completed		31/12/2017		26/07/2018	O'Brien, Robert	iiRXZfZIJkeGyH
Complete	O'Connor,	31/03/2018	D. O'Conr	03/09/2018	Olsson, Jenny CM	ODY2zUtoMUe
Completed		31/12/2017	D. O'Conr	26/07/2018	O'Brien, Robert	p7_-Cv6B902q
Completed		31/12/2017	D. O'Conr	26/07/2018	O'Brien, Robert	LN_KSrluJ0KBw
Complete	O'Connor, David J;Olsson, Jenny C		D. O'Conr	02/09/2019	Stileman, Tim	TLzsXjdWokWT
Complete	Flores, Ari	30/06/2018	A. Flores	06/12/2018	O'Brien, Robert	LYZTrQFo1kaEx
InProgres	O'Connor,	12/12/2019	D. O'Connor			zsUvI3Rs0UeyO
Complete	Povey, Bri	30/06/2018	Brian Pov	06/12/2018	O'Brien, Robert	Jykq23fSaU2Re
Complete	Wilford, S	31/12/2018	M. Smith	09/01/2019	Wilford, Sarah	yMUETgwbRke
Complete	Hill, Gardi	25/01/2019	Action agı	09/05/2019	O'Brien, Robert	F-17h471jEKS1
InProgres	Ragoonan	31/12/2019	Tracker for agreed topics			PPudsLHsRkq-V
Complete	O'Brien, R	31/12/2018		09/01/2019	O'Brien, Robert	IHBXLO0DxkuN
Completed				09/11/2018	O'Brien, Robert	uHgOb8M12kW
Complete	O'Brien, R	31/01/2019		26/02/2019	O'Brien, Robert	APfizkkeq0yTH
Complete	Flores, Ari	31/01/2019	Consultan	04/03/2019	Flores, Ariel D	dGiPnJsXe0OEw
Complete	Emery, Dc	31/03/2019		07/04/2019	Towns, Martin	NWmD3rKiHUC
InProgres	King, Dave J		https://tasks.office.com/bp.com/en-US/Ho			udLmk68CP0i_
Complete	Ragoonan	30/06/2019		01/05/2019	RagoonananJalin	6qi0kzbAZkqa_
Completed		30/09/2018	Responsible: Bruce Price	08/08/2018	Ford, Susan J (Su	1KWfUEp4qkO
Complete	Emery, Dc	31/12/2019	Responsible: Dominic Emery	11/01/2019	O'Brien, Robert	SHkDSqE-F0qTy
Complete	Emery, Dc	30/06/2018	Responsible: Dominic Emery	29/11/2018	O'Brien, Robert	ZytBSz9FHkyet
Complete	Emery, Dc	31/12/2018	Responsible - Paul Jeffers	29/11/2018	O'Brien, Robert	E6pFZICsWUa2
Complete	Alves, Nur	01/12/2018	Responsible - Bob Lyon	30/11/2018	Alves, Nuno F	8SWueUTPSk-c

Complete	Rogers, Li	31/12/2018	Responsible - Dave King / Liz Rogers	09/05/2019	O'Brien, Robert	J7Mxq0xCNkSt
InProgres	Moore-Br	21/03/2020	Responsible - Clare Moore-Bridger			M5XZZ7AxPUm
InProgres	Moore-Br	31/12/2020	Responsible - Clare Moore-Bridger			89w1CLHgP06y
InProgres	Moore-Br	31/12/2019	Responsible - Clare Moore-Bridger			bQCpGX_RIUud
InProgres	Moore-Br	29/11/2019	Responsible - Clare Moore-Bridger			rworgEhu5E6r0
InProgres	Moore-Br	23/03/2020	Responsible - Clare Moore-Bridger			qLnh9u9qgEOM
InProgres	Moore-Br	30/09/2019	Responsible - Clare Moore-Bridger			easfgfcWT0qnV
Complete	Moore-Br	31/03/2019	Responsible - Clare Moore-Bridger	24/06/2019	O'Brien, Robert	g6E2fZxQL0Wm
InProgres	Moore-Br	31/10/2019	Responsible - Clare Moore-Bridger			wd3bKMndGU
InProgres	Moore-Br	30/09/2019	Responsible - Clare Moore-Bridger			vemM-mywZku
NotStarte	Moore-Br	30/09/2019	Responsible - Clare Moore-Bridger			ngxLzgaayEamO
Complete	ZZFagbayi	14/12/2018	Responsible - Bob Stout / Kola Fagbayi	30/11/2018	Alves, Nuno F	XPMEJ-PFZU2y
Complete	Alves, Nu	14/12/2018	Responsible - Bob Stout / Liz Sedot	30/11/2018	Alves, Nuno F	DS9CjmQaTEm
Complete	Dio, Susar	30/11/2018	Responsible - Joe Ellis / Kola Fagbayi	30/11/2018	Alves, Nuno F	MLMfrJpVJkmt
Complete	Alves, Nu	01/10/2018	Responsible - Bob Stout / Liz Sedot	10/10/2018	Alves, Nuno F	DlFTCf7-QkG9t
InProgres	ZZGerard,	31/12/2019	Responsible - Faye Gerard			IWn527_JCkmX
Complete	Alves, Nu	01/11/2018	Responsible - Joe Ellis	10/11/2018	Alves, Nuno F	XS61wToa3UC9
Complete	Shaw, Ste	30/06/2018	Responsible - Marisa Walker	04/09/2018	41ee3f46-faae-4	7qwyN8T9LUu
Complete	Shaw, Ste	30/09/2018	Responsible - Marisa Walker	08/10/2018	41ee3f46-faae-4	g4TN8plDZkem
Complete	ZZFagbayi	14/01/2019	Responsible - Megan Clemens	16/01/2019	ZZGerard, Faye	HxvtcMRY-ka0h
Complete	Shaw, Ste	31/03/2019	Responsible - Steve Shaw	09/05/2019	O'Brien, Robert	W4BrgbZZW0K
InProgres	King, Dave	31/12/2019	Responsible - Doog Wright			-zI_0hRIhEm0J
Complete	Sathiamo	31/12/2018	Responsible - Muhunthan Sathiamoorthy	14/01/2019	Sathiamoorthy, I	btriXH3svUaON
Complete	Ragoonan	31/03/2019	Responsible - Karen RagoonananJalim	30/03/2019	RagoonananJalin	uT9N3vXy1EOa
InProgres	Ragoonan	31/12/2019	Responsible - Karen RagoonananJalim			LXH3d_yIFUCR
Complete	Sathiamo	31/12/2018	Responsible - Muhunthan Sathiamoorthy	14/01/2019	Sathiamoorthy, I	7PJwpva_2UGJ
InProgres	ZZFagbayi	31/12/2019	Responsible - Kola Fagbayi			JkqkUnEIs0ONh
Complete	King, Dave	30/09/2018	Responsible - Tyrone Kolpes	28/09/2018	Sathiamoorthy, I	en5GesiwwkSM
Complete	Sathiamo	31/12/2018	Responsible - Muhunthan Sathiamoorthy	14/01/2019	Sathiamoorthy, I	JsRw7reDlEKqx
Complete	O'Brien, R	31/12/2018	Responsible - Sue Ford	09/05/2019	O'Brien, Robert	eyPolT4oCU2V
Complete	O'Brien, R	31/12/2018	Responsible - Rob O'Brien	27/11/2018	O'Brien, Robert	YkyeKsdKcEmO
Complete	ZZGerard,	31/12/2018	Responsible - Faye Gerard	26/11/2018	ZZGerard, Faye	FMt3ReT-nUGr
Complete	ZZPugh, B	31/12/2019	Responsible - Will Burton	24/06/2019	ZZGerard, Faye	nTzKhLAgNEq2
Complete	Rogers, Li	31/12/2018	Responsible - Alejandra Castano	21/11/2018	Castano, Alejand	2PUJlo1JjEKTjc
Complete	Sathiamo	31/01/2019	Responsible - Muhunthan Sathiamoorthy	04/02/2019	Sathiamoorthy, I	Z9IGWqhQaEq
Complete	Rogers, Li	31/12/2018	Responsible - Liz Rogers / Kola Fagbayi	14/01/2019	Sathiamoorthy, I	MnxKctF4xEqo
InProgres	Sathiamo	31/12/2019	Responsible - Muhunthan Sathiamoorthy			6LxEZsmfsUmt
Complete	Olsson, Je	30/06/2018	Responsible: Jenny Olsson	29/08/2018	Olsson, Jenny C\	Otl7mL81akiRJ
Complete	Corbally, .	31/03/2019	Responsible: Jim Corbally	03/04/2019	Stileman, Tim	EuabM34IhUKP
Complete	King, Dave	31/12/2018	Responsible: Sue Ford	16/01/2019	Ford, Susan J (Su	SwVU6V8iok-i4
InProgres	Ford, Susa	31/12/2019	The Reducing Methane Best Practices (RME			3qOE3Nvvmky
InProgres	ZZFagbayi	31/12/2019	Responsible: Rick Urban			IOzT65PvwkKxK

Complete	Rios, Aleic	28/06/2019	Methane source surveys will be updated	08/05/2019	Aitken, Campbell	AEZbyY15O2_fU
Complete	Rios, Aleic	30/08/2019	This action follows	30/08/2019	Aitken, Campbell	[illegible]
Complete	Paul, Ed;N	29/03/2019	Responsible: Ed Paul	16/01/2019	Stileman, Tim	-8Jq-LVPbkS4A
InProgres	Lulla, Amr	30/09/2019	Responsible: Amrita Lulla			7bnxEeTmMUi
Complete	Kennedy,	31/03/2019	Responsible: John Kennedy	16/01/2019	Stileman, Tim	0kqRB93XtkOK
Complete	Olsson, Je	31/12/2018	Responsible: Jenny Olsson	29/08/2018	Olsson, Jenny CN	M9mntWFjmEy
Complete	Lulla, Amr	31/03/2019	Responsible: John Kennedy	16/01/2019	Stileman, Tim	xb51ic-rs0-28D
InProgres	Kennedy,	30/09/2019				8y8gzoZkZE2Hl
Complete	Corbally, .	31/03/2019	Responsible: Jim Corbally	03/04/2019	Stileman, Tim	3Bt7cTzQLECPe
InProgres	Johnston,	30/06/2019	Responsible: Roger Boyce/Andy Johnston			2bVuFWyXtkq7
InProgres	Ragoonan	30/06/2019	Responsible: Doog Wright/Graeme Gordon			MA1q0_vfs0O4
Complete	Cristofoli,	31/12/2018	Responsible: Graeme Gordon	16/01/2019	O'Brien, Robert	R-YODiNG6Uqj
InProgres	Cristofoli,	31/12/2019	Responsible: Graeme Gordon			CGyokHGrk0GA
Complete	ZZGerard,	31/12/2019	Responsible: Faye Gerard	20/06/2019	ZZGerard, Faye	rCpCy8nUAU6x
Complete	ZZPugh, B	31/12/2019	Responsible: Will Burton	20/06/2019	ZZGerard, Faye	V9zESbZ_T0usM
Complete	ZZPugh, B	31/12/2019	Responsible: Kevin Canon	24/06/2019	ZZGerard, Faye	YVDe9fUGs0m
InProgres	ZZPugh, B	31/12/2019	Responsible: Brian Pugh/Kola Fagbayi			hVysv1XsxUCh
InProgres	ZZGerard,	31/12/2019	Responsible: Faye Gerard/Bola Ajakaye			Rfoz1MVQEECi
InProgres	Humphrey	31/12/2019	Responsible: John Sanders			KbhRwJd_JEaP
InProgres	Humphrey	31/12/2019	This action is being reviewed in light of the announcem			l7PUlZmcAdGb
InProgres	ZZFagbayi	31/12/2019	Responsible: Kola Fagbayi			ozNZ8QH3vUO
Complete	King, Dave	31/12/2019	Responsible: Sue Ford	04/09/2018	Ford, Susan J (Su	MoTHwiYnbk6
Complete	Campbell,	31/03/2019	Responsible: Chris Mawer	02/05/2019	RagoonananJalin	h7huMKaGUUy
Complete	Young, Ali	31/12/2019	Responsible: Alison Young/Robert O'Brien	07/12/2018	O'Brien, Robert	DLW7JGoy90aZ
InProgres	Humphrey	31/12/2019	Responsible: John Sanders			iD9c9Ulwu0OH
Complete	Watson, N	31/12/2018	Responsible - Julian Gray	16/01/2019	Naik, Manish	m2d3O8mkaEe
InProgres	Watson, N	31/12/2019	Responsible - Julian Gray			ECT4sN9l80WH
InProgres	Watson, N	31/12/2019	Responsible - Julian Gray			izP0foEZhE2sW
Complete	Watson, N	31/12/2018	Responsible - Julian Gray	16/01/2019	Cameron, Andy	yAEdyL7aIEi4bM
Complete	Evans, Pet	31/12/2019	Responsible - Ahmed Hashem	08/01/2019	Evans, Peter	HL_ddE6lfUG-w
Complete	Evans, Pet	31/12/2018	Action agı	08/01/2019	Evans, Peter	J6eVqt8Nakam
Complete	Watson, N	31/12/2018	Responsible - Julian Gray	03/09/2018	Cameron, Andy	dJGSiaiTCUmuN
Complete	Watson, N	30/04/2019	Responsible - Julian Gray	29/04/2019	Cameron, Andy	dFtyhKj_nkCW
Complete	ZZGerard,	31/12/2018	Responsible - Faye Gerard	16/01/2019	ZZGerard, Faye	cpShPtO_kUiD3
Complete	Watson, N	30/06/2019	Responsible - Julian Gray	28/06/2019	Cameron, Andy	skbfwbSbCkKm
Complete	Touzel, Da	31/12/2018	Responsible - Dan Touzel	08/01/2019	Evans, Peter	oF9CIuq5UkGv
Complete	Evans, Pet	30/06/2018	Responsible - Peter Evans	24/08/2018	Evans, Peter	Sar58dRHPEGIc
Complete	Evans, Pet	30/09/2018	Responsible - Peter Evans	24/08/2018	Evans, Peter	_ISU6ce3a02A9
Complete	Evans, Pet	31/12/2018	Responsible - Peter Evans	08/01/2019	Evans, Peter	WZENcGyu2Eq
InProgres	Price, Bru	30/09/2019	Responsible - Ian Alleyne			lIQUjpU1n0Wn
InProgres	Krieger, A	31/12/2019	Responsible - April Partridge			THUJmu7NeUy
NotStarte	Beamer, S	31/12/2019	Responsible - Steve Beamer			9pUFek6WJEi2

NotStarte	Beamer, S	31/12/2020	Responsible - Steve Beamer		wlK9JLRBOkOG
Complete	Boyce, Ro	15/03/2019	Responsible - Roger Boyce	09/05/2019 O'Brien, Robert	UdkcPZ5OhEOI
InProgres	Beamer, S	31/12/2019	Responsible - Steve Beamer		QAti9O9LMUyv
InProgres	Price, Bru	31/12/2019	Responsible - Doog Wright		J6MeGl_6lUO2
InProgres	Price, Bru	30/06/2019	Responsible - Doog Wright		vO1QjEVpL0iRK
InProgres	ZZPugh, B	31/12/2020	Responsible - Brian Pugh		thLECEnd2EON
InProgres	Birrell, Gc	31/12/2019	Accountable: Gordon Birrell		XLoOpOMaREa
Complete	Emery, Dominic		Accountal	08/05/2019 RagoonananJalin	MMhnyjIf7EGV
InProgres	Woods, R	31/12/2020	Accountable - Rachel Woods		batQqmNh-kO
InProgres	Streett, M	31/12/2019	Accountable - Mary Streett		hi7DGQf77Uyo
InProgres	Webster,	31/12/2019	Accountable - Steve Shaw		Gl2T_-KC2Umy
InProgres	King, Dave	31/12/2019	Accountable - Dave King		yFmfHoA8aES8
Complete	King, Dave	31/12/2020	Accountal	24/06/2019 RagoonananJalin	HSq5QWn9akS
NotStarte	O'Connor,	31/12/2019	Responsible: Richard Mortimer		mkGHNUkxBEG
InProgres	Collins, Ar	31/12/2020	Responsible: Matt Werner		CCYYR84xhUe6
InProgres	ZZLawler,	31/12/2019	Accountable: David Lawler		sSKTMfnq3kOC
InProgres	Robbie, Sa	31/12/2019	Accountable: Andy Collins		b08XErVp9Eaa
InProgres	Watson, M	31/12/2020	Accountable - Morag Watson		7g0c1umQtUKA
InProgres	Hashmi, A	31/12/2019	An integrated plan has been developed for		28ClwfO7HUig
InProgres	Collins, Ar	31/12/2019	Accountable - Fuzzy Bitar		RRcv90fV_EyAC
InProgres	Collins, Ar	31/12/2019	Accountal	RRcv90fV_EyACXieWw1UzpYAP-vk	
InProgres	Collins, Ar	31/12/2019	Accountable - Fuzzy Bitar		nRSMgC1nCU2
InProgres	Collins, Ar	31/12/2019	Accountal	nRSMgC1nCU2AUjfWk09M25YAHZZD	

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jpx1PQ3XyJYAJjXL
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mN_pCHYZBZYAD0ZR
XieWw1UzpYAP-vk

AUjfWk09M25YAHZZD

Task Title	TaskId	Comment
2.7	Evalu	In addition, the Region ran a Carbon Workshop to identify further potential lov
2.7	Evalu	This action is being closed out following the project's presentation of it's lower
3.2	Devel	Closed to be embedded with Upstream Carbon Guide.
2.3 -	Asse	This action has been completed. A list of technologies against key sources of m
1.10	Deliv	As of end-2Q 2019 Upstream have delivered 3.05 Mte of SERs with a further 0.
11.8 -	Rur	We have now completed filming of methane technologies in the field in L48, Kl
11.9 -	Shc	We plan to create a press release for the showcase event on 9 September, whi
11.7 -	Pu	As we understand it, the main paper on methane leakage is in peer review. We
7.5 -	Dev	Upstream Leadership methane plan agreed to continual monitoring definition and
8.2 -	Dev	Contractor meetings held with Expro (1 meeting) and Schlumberger (2 meeting
ACTION 1	HSq5QWr	1. Trials and pilots have been completed and currently various technology are bei
13.5 -	De	This action will be addressed through the MGP Executives / Masterclass Trainir
1.8	Asses	Per email sent to D. King by Sue Ford on June 20th, 2019, containing a Brief for
4.3 -	Com	June 2019 Update: BPX installed 246 solar heat trace pumps (BPX has 4 additio
2.9	Using	Keeping this action open following discussion with action owner and pushing b
2.9	Using	This action has been incorporated into the 2019 GFH AOP for the MPM team a
2.10	Cons	John Goldie confirmed this action can be closed as we are very much progressi
15.5 -	Ens	June 2019 Update: For most inputs to the calculations, BPX uses a data aggrega
14.5 -	De	June 2019 Update: The BPX RC&E has begun environmental training in June to
12.5 -	Bui	June 2019 Update: Draft Advocacy Plan has been drafted and is being internall
9.3 -	Impl	June 2019 Update: BPX has successfully implemented an LDAR program on site
4.4 -	Sele	June 2019 Update: Solar pump installations were completed (246 installations
4.2 -	Repl	June 2019 Update: All high bleed controller replacements located at wellsites h
4.1 -	Eval	June 2019 Update: BPX evaluated the use of zero emission solar heat trace pur
5.3 -	Build	June 2019 Update: RC&E developing a presentation identifying significant OBO
2.12 -	Up	June 2019 Update: On track. An updated Facility Design Manual has been draft
14.3 -	De	The SLL and Executive Methane Education Programme will be delivered via the
2.11a	Ad	The Guides (12-15 pages) for the 8 Reducing Methane Emissions Best Practices
2.8a	Upd	Russell Smith requested that this action be postponed to end 3Q 2019 at the la
8.2 -	Dev	Meetings held with SLB in March 2019, and further meetings planned with Exp
11.6 -	De	To confirm we have decided to focus on communicating BP technology trials as
2.10	Cons	Power from Shore has been further progressed, with credible options available
1.1	Devel	Included in the new Cat C digital projects tool which is currently being deploye
1.10	Deliv	Upstream have delivered ~2.5 Mte of SERs to end 1Q 2019 with a further ~0.5
3.3	Revie	Complete - see attached slides provided as part of related Meeting Action to "
3.3	Revie	Hi Gardiner - is this action now complete following the update provided at the
13.4 -	De	More challenge and $100M fund successfully launched. Low Carbon category
15.2 -	Reve	Action completed as surveys now received from North Sea. Recommend a follc
10.3 -	Rev	Closing action as per Sonna's comments - would be helpful to get update on hc
2.3 -	Asse	Action 2.2 now complete. This action has now been initiated. Stuart Lodge and
2.2	Revie	Latest data received from GOO and reviewed. Summary in attached PowerPoir
ACTION 1	MMhny	The Methane Emissions Policy attached will be replaced by the IMWG Methan
14.5 -	De	May 2019 Update: Townhalls and other all employee meetings - discussions or
12.5 -	Bui	May 2019 Update: Completed the study of malfunctioning intermittent contro
9.3 -	Impl	May 2019 Updates: Implemented LDAR program on sites that will be divested

5.3 - BuilozNZ8QH:May 2019 Update: Reviewed OBO GHG reports and identified the largest reduc
2.12 - UpIOzT65Pv1May 2019 Update: An updated Facility Design Manual has been drafted and is
3.1 Agree 2bVuFWyAngola PSVM LPGC re-alignment work package was completed on the 3rd May
8.5 - RepaUdkcPZ5C- PSVM: Vendor BHGI is on schedule to arrive on PSVM on Monday the 13th of
5.5 - Devh7huMKaGordon
5.5 - Devh7huMKaSent from my iPhone
5.5 - Devh7huMKaUpdate from Chris Mawer - I am pleased to inform you that at the Rosneft Boa
6.2 - Iden ECT4sN9l:The framework MSA is at the final stages of agreement between BP and Xpans
ACTION 7 28CIwfO7Refer to monthly reports (attached) for details
Plan an U 6qi0kzbA:The Upstream Carbon Workshop was held on Wednesday 24th April, 2019 and
7.3 - DelivdFtyhKj_rProposal circulated reviewed and updated.
2.2 Reviejzg FZbyYilGOO Methane Survey data is taking longer to collate than planned. Review wit
2.3 - Asse 2I9UN1iIzGOO Methane Survey data is taking longer to collate than planned. Review wit
Create a cNWmD3rl2 slides to illustrate options and relative cost and impact on emissions
2.10 - GFIEuabM34GHG operational performance data specifications (note - not relevant to ICE produ
2.9 - Enga3Bt7cTzQGHG operational performance data specifications (note - not relevant to ICE produ
14.2 - IdeuT9N3vXyThis action identified the target audience within the Upstream GLL and SLL pop
3.2 Devel MA1q0_vIt has been agreed that this document will now take the form of an Upstream I
2.5 - Benc7bnxEeTnExtending this action out to end 3Q to allow time for completion. Activities unc
11.8 - RurvemM-myThe methane emissions showcase will now take place on 9 September in Sunbu
11.6 - Devg6E2fZxQWe have depriortised this in favour of promoting BP's own technology trials an
11.3 - ProrworgEhuThe final methane round table in the series will take place in Brussels on 29 Ap
11.2 - CrebQCpGX_The methane emissions tech showcase on 9 September in Sunbury will include
11.1 - DeM5XZZ7ABernard Looney took part in a methane-specific panel at CERA Week. He will sp
8.5 - RepaUdkcPZ5CNote update from Roger Boyce on flare meter improvements with anticipated
11.5 - AnreasfgfcWThe emissions tech showcase event for media will take place on 9 September i
8.5 - RepaUdkcPZ5CGtP work planned for offshore execute 11th- 18th April, PSVM work planned fo
Consider dGiPnJsXeConfirmed alignment at this stage of the project with Shell
5.5 - Devh7huMKaThe working group within Rosneft continue to evaluate the implications of sign
2.2 Reviejzg FZbyYilGet Outlook for iOS
2.2 Reviejzg FZbyYilMoved due date from end of April to end of June due to delay in GOO methan
2.10 - GFIEuabM34This activity is now effectively enduring. It is now a case of continuing to embe
2.9 - Enga3Bt7cTzQThis activity is now effectively enduring. It is now a case of continuing to embe
2.2 Reviejzg FZbyYilRequires completion of latest methane surveys by GOO, which are now due by
2.7 EvaluaTLzsXjdWPropose this ongoing action be closed out following a presentation to the Carb
8.2 - DevcTHUJmu7Integration meetings held with GOO and upstream technology about flare camera
1.7a Trial mPTh4kIsThe first green completion in Oman was started on KZN 402 on 26 February 2019.
7.5 - DevcskbfwbSbContinuous is interpreted at this point as frequent revisits to a particular site to
Consider iAPfizkkeqWork ongoing to define govenance process, but will simply be called the "Upst
7.5 - DevcskbfwbSbHigh level plan including scope and funding developed and waiting for peer rev
7.3 - DelivdFtyhKj_rDraft proposla attached
2.11a AdI3qOE3NvIReducing Methane Best Practices poster attached for reference.
2.11a AdI3qOE3NvIThe 2019 Work Program proposal to develop an Implementation Plan for the R
15.7 - DeZ9IGWqhIInitial draft updated following SME feedback
2.8 - Defirxb51ic-rsCAn update to the last comment below... A second action, 2.8b, will now not be
1.10 Deliv6wLIKvF0IPreliminary 2018 full-year data shows Upstream will ahve delivered between 1

1.2 Evalu MqFTFBk We have successfully completed testing of the Providence Mantis camera for mea
1.5 Pilot r 2AR-U8EF 2 successful trials of FLIR camera quantification technology (QL320) completed
2.8 - Defi xb51ic-rs This is being closed and superseded by two actions. The first of these actions h
2.8a Upd 8y8gzoZk A comment has been raised against the Appraisal Management Guide in the pe
2.6 - Revi 0kqRB93X Review complete. Low emissions equipment will not be added to JIP33 per se,
2.4 - Revi -8Jq-LVPb BP will request the technical work fronts identified are included on the next IO
2.7 Evalu TLzsXjdW The Tortue Phase 2/3 reference case continues to be standard offshore SCGT c
6.1 - Revi m2d3O8n The review of current portfolio is complete. We are now working on next steps
5.5 - Dev h7huMKa • The details of the Methane Guiding Principles (MGP's) have been sent to Rosnef
15.2 - Rev eyPolT4o Survey responses received from AGT, Angola, AsPac, Oman and Trinidad. Prelir
9.1 - Defi J6MeGl_6 Due date extended to end 2Q 2019 to allow for time to incorporate learnings f
8.1 - Eval llQUjpU1r Plan in place to deliver by 3Q 2019 - due date amended to 30/09/2019
7.5 - Dev skbfwbSb High level plan in the process of being developed with input from Peter Evans a
7.3 - Deliv dFtyhKj_r A proposal has been created to recommend to BP the current preferred drone
7.1 - Dev yAEdyL7a Decisions on the DIO/BPX joint plan have been deferred whilst BPX focuses on
2.11 - Lea SwVU6V8 The Reducing Methane Best Practices and associated 2019 Implementation Pla
15.5 - Ens nTzKhLAg L48 RC&E will hold a meeting with L48 Operations in 1Q 2019 to discuss additic
14.5 - De JkqkUnEIs A L48 communication plan on carbon is set for 2019, and a L48 carbon intranet
13.3 - De HxvtcMRY A L48 internal methane communication plan aligned with Segment's communi
12.5 - Bui lWn527_J Continuing the study of malfunctioning intermittent controllers in Colorado wi
9.3 - Impl thLECEnd The L48 has a LDAR recommendation to achieve the 100% of production LDAR
7.4 - Leak cpShPtO_ L48 has a LDAR recommendation based on completed trials that will be review
5.3 - Build ozNZ8QH Brainstorming options to complete this task.
4.5 - Use Rfoz1MV Potential crowd-sourcing and other creative solutions to the pneumatics and d
4.4 - Sele hVysv1Xs Solar pump installations are underway (244 installations of 250 as of Decembe
4.3 - Com YVDe9fU Funding approved for a portion of Solar Heat Trace Pump Project. Solar pump i
4.2 - Repl V9zESbZ_ All high bleed controller replacements located at wellsites have been complete
4.1 - Eval rCpCy8nU Replacement of gas pneumatic heat trace pumps with zero emission solar heat
2.12 - Up IOzT65Pv Jan 2019 Update: Revise L48 (now BPX) FDM to incorporate methane reducing
1.7a Trial mPTh4kIs Site integrated tests of equipment likely to occur in early February to allow for de
8.2 - Dev THUJmu7 Terms of reference to outline approach drafted and out for review.
15.9 - Wo 6LxEZsmf The timeline needs to reflect this is a detailed effort spanning a long period of
15.10 - W JsRw7reD As per comment on the 21/11 this specific action is either complete or needs t
15.8 - Wo MnxKctF4 Action completed based on the update provide don 22/11 and assuming the al
15.7 - De Z9IGWqh Comments received from several SMEs on the draft 2-pager and now collating
14.4 - De 7PJwpva_ Working with OMSA team on the "Alpha" script with view to finalising in late Ja
14.1 - De btriXH3sv Action complete
1.2 Roll o SHkDSqE- Action completed: revised EEM GN-33 process issued in December 2018: The a
Carbon a IHBXLO0D Complete and the FM is now with Gordon and will be shared with UET during t
3.2 Devel yMUETgw ADPs and Regional Development Plans now require GHG data. Identification of
2.10 Cons 0vyTsVGe 07/01/2019 Update: A study has been completed on AC vS DC power in the ev
7.10 - Ide HL_ddE6l Key locations for testing and first generation deployment have been identifed
7.9 - Final WZENcGy All processes for delivering technology needs for methane management are nc
7.6 - Iden oF9CIuq5 We have successfully completed testing of the Providence Mantis camera for n
7.11 Dev J6eVqt8N Vision statement to be finalised at the 22Jan meeting
8.5 - Rep UdkcPZ5C Unfortunately we have seen slippage on both assets associated with contract i

ACTION 1 Gl2T_-KC¿2018 plan delivered. 2019 plan in development and will run throughout the ye
2.11 - Lea SwVU6V8 Reducing Methane Best Practices have been agreed by the Methane Guiding P
3.2 Devel‹yMUETgw 31st December Update: Progress made with bp confirmed as leading Transport
3.3 Revie\F-17h471j The work is ongoing and I will provide an update at the next meeting
8.5 - Repa UdkcPZ5C Both assets remain on track for completion by end Q1. I will re-test readiness r
7.11 Deve J6eVqt8N Draft Vision statement and explanatory diagram attached
5.6 - Deve DLW7JGo Methane forecast has been incorporated into overall Upstream GHG forecast i
8.1 - Eval‹llQUjpU1r focus area proposed (UEC) & supported (GOO) to determine Upstream flare m
3.1 Devel‹Jykq23fSa Final document, Guidance Note 14 - GHG Governance, was published to the GI
3.1 Agree 2bVuFWy Due date revised to mid-2019 to reflect current plan for FGR commissioning or
2.8 Under LYZTrQFo Marked as complete based on updates and agreement to create new ongoing
3.4 Imple‹CGyokHG‹ 1Q19: COO/ HoF regional expectations communication; develop simple & strai
3.3 Devel‹R-YODiNG central & frontline leadership behaviours, embedded processes and performar
3.2 Devel‹MA1q0_v working group to be defined to provide input into practice and process throug
2.8 Under LYZTrQFo The Engineering Study report has been finalised following comments from the
1.5 Pilot r2AR-U8EF covered by action 1.2 update
2.8 - Defi rxb51ic-rs(Initial engagement with projects (e.g. Tortue Phase 2 and 3, Clair South, etc.) o
2.10 Cons0vyTsVGe A Clair South Power from Shore (PFS) feasibility study has been kicked off and I
8.2 - Deve THUJmu7 Initial strategy conversations held in 4Q 2018. Terms of reference will be compiled
1.7a Trial mPTh4kIs Project is on track for delivery in 1Q 2019. Engineering for the concept is complete
12.3 - Agr MLMfrJp\- BP has strengthened its participation in API Environmental Partnership (EP) g
12.2 - Cre DS9CjmQ¡ 2018 version of the US Methane campaign document complete. See attached f
10.2 - Alig8SWueUT Received and analyzed Exxon's draft Policy Framework recommendation to all
12.1 - Cre XPMEJ-PF- The Model Methane Regulation has been completed. Please refer to Chapter
3.1 Agree 2bVuFWy BP Angola: PSVM LPGC was restarted between the 28th of August 2018 and th
ACTION 7 28ClwfO7 Please note - the end date for Action 7 has been updated to 31/12/2019 to bri
ACTION 7 28ClwfO7 For full details of monthyl progress please refer to attached reports. In the per
7.1 - Deve yAEdyL7a DIO have developed a plan with BPX for combined ground , air and satellite an
7.11 Deve J6eVqt8N We are currently working with communications to hone the key components o
2.6 - Revi‹0kqRB93X The proposed scope for the first phase of JIP33 scale up is in the process of bei
2.5 - Benc7bnxEeTn Part of ongoing benchmarking activities under the GPO Focus Area on Carbon I
10.1 - Ref E6pFZICs\ The IMWG process has been refreshed with a revised Terms of Reference and ren
1.3 Devel‹ZytBSz9F - GHG Forecast now embedded in Group Planning Process to get Group GHG proje
13.4 - De\W4BrgbZ¿ The cMore challenge is currently under development and still on track to launc
2.7 Evalu¿TLzsXjdW The Tortue Phase 1 GHG emissions are forecasted at 9 million tonnes of CO2e
2.1 Cond‹FMcwQ9€ Ongoing benchmarking to strengthen emissions estimations in pre-GPO to eva
2.11 - Lea SwVU6V8 BP and Shell have prepared a joint 2019 Work Proposal entitled "Implementati
15.2 - Reve yPolT4o(The previous survey has been updated to improve on previous version and adc
1.10 Deliv6wLIKvF0l To end-3Q 2018 Upstream has delivered 1.48 Mte of SERs with a further 0.41 M
1.8 Asses:fDjA0MTk Membership of External Climate Initiaves is being revisited. Gardiner Hill is lea
Plan an U 6qi0kzbA¿ Initial planning discussions have begun, currently working to identify resource
Agreed to PPudsLHs Green Completions and Carbon Abatement Fund to be discussed at 6th Devem
8.5 - Repa UdkcPZ5C 28/11/2018 - spare probes ordered and expected for both GtP and PSVM by Fe
2.11 - Lea SwVU6V8 The 2019 (Methane Guiding Principles) Work Proposal for developing an Imple
2.11 - Lea SwVU6V8 The 2019 Methane giding Principles Work Proposal for developing an Impleme
7.9 - Final WZENcGy All teams engaged in technology identification, trialing and deployment are wc

7.6 - Iden oF9CIuq5 Angolan test of the Mantis camera on track for mid-December. The camera ha
15.3 - Cor YkyeKsdK Action Complete - a methodology comparison has been completed for Tanggul
1.2 Evalu MqFTFBk The National Physical Laboratory has been engaged to provide guidance in the fin
14.5 - De JkqkUnEI L48 HSE held meetings in November 2018 with key L48 stakeholders to discuss ho
12.5 - Bui IWn527_J Continuing the study of malfunctioning intermittent controllers in Colorado with C
9.3 - Impl thLECEnd L48 has successfully implemented an LDAR program on sites that account for 30%
7.4 - Leak cpShPtO_ L48 has a draft LDAR recommendation based on completed trials that will be revie
4.5 - Use Rfoz1MV(Meetings held in late October 2018 by L48 HSE team and key L48 stakeholders to d
4.4 - Sele hVysv1Xs Solar pump installations are underway. L48 will continue to evaluate emission red
4.3 - Com YVDe9fU(Funding approved for a porton of Solar Heat Trace Pump Project. Solar pump insta
4.2 - Repl V9zESbZ_ All high bleed controller replacements located at wellsites will be completed in 20
4.1 - Eval rCpCy8nU L48 began the replacement of gas pneumatic heat trace pumps with zero emis
2.12 - Up IOzT65Pv 25 Nov 2108 Update: Rick Urban met with L48 RCE team & facility engineering
2.12 - Up IOzT65Pv Rick Urban met with L48 RCE team & facility engineering teams in November 2018
15.5 - Ens nTzKhLAg L48 has developed a process to identify GHG data issues in L48's system of record
13.3 - De HxvtcMR A L48 internal methane communication plan aligned with Segment's communicati
12.3 - Agr MLMfrJp Joe Ellis, BPA, met with Eric Milito, API, in June 2018 to discuss how BP could assis
12.1 - Cre XPMEJ-PF The Model Methane Regulation has been completed. The Model Methane Regula
12.5 - Bui IWn527_J Continuing the study of malfunctioning intermittent controllers in Colorado with C
15.8 - Wo MnxKctF4 The OGCI public methane target has set the methodology for methane intensit
15.6 - Up 2PUJlo1Jj After reviewing the recent updates to the reporting requirements, we found th
11.3 - Pro rworgEhu The third and final stakeholder roundtable of 2018 took place in Beijing on Tue
10.3 - Rev J7Mxq0x(This action is superceded by a broader action looking at all climate / GHG initia
15.9 - Wo 6LxEZsmf OGCI is undertaking, via EDF and UN Environment, a series of independent me
15.9 - Wo 6LxEZsmf The OGCI public methane target has set the methodology for methane intensit
14.1 - De btriXH3sv This is believed to relate the Group Leader Compass programme which include
14.4 - De 7PJwpva_ This remains work-in-progress and is aligned to the Climate OMSA module. It is
15.7 - De Z9IGWqh Outline draft 2-pager prepared, awaiting final reviews, before being shared mc
15.10 - W JsRw7reD This activity I part of the over-arching OGCI work in the methane space and is r
2.10 - GFI EuabM34 Discussions are ongoing with suppliers during the scheduled PRMs clearly high
2.9 - Enga 3Bt7cTzQ Further assessment has been performed to determine the actual vs. theoretica
1.14 Deve iDcldwxn($100M fund agreed by Gordon and Murray on 2nd November 2018, work prog
8.5 - Rep UdkcPZ5C April 2019. Strategy for online removal agreed. Critical spares identified with d
8.1 - Eval lIQUjpU1r Full review to be carried out 2H18/ 2019 across GOO & GPO
5.2 - Deve l7PUlZmA on track
5.1 - Deve KbhRwJd_ on track
3.4 Imple CGyokHG on track
3.3 Devel R-YODiNC scope GOO only; AOM input Oct
3.2 Devel MA1q0_v section drafting assigned
ACTION 3 CCYYR84x Glen Lyon: FGR remains a key commissioning objective, but delayed from 3Q18
1.10 Deliv 6wLIKvF0 SER paper: proabilisitc review shows 3.5Mte SER delivery (delivered 2016-18yt
1.5 Pilot r 2AR-U8EF Angola (PSVM) flare efficiency trial scheduled Nov
1.1 Devel Y3hTRWR interim simple GOO hopper overview spreadsheet 1Q19
2.8 Under LYZTrQFo Atkins report being reviewed and comments gathered from BP, Shell and Total
1.6 Evalu 1PKqQV6 GtP Northern/ Southern line pressure optimisation to reduce flaring and increa
5.5 - Deve h7huMKa On the 24th April a Rosneft team attended a knowledge sharing session in SJS

ACTION 7 28CIwfO7All projects in Action 7 remain on-track or have been completed. Highlights inc
7.9 - FinalWZENcGyDetails of integrated working practises will be presented at the October Carbo
7.10 - IdeHL_ddE6lAfter careful consideration by Downstream Technology the request from the vend
7.6 - IdenoF9CIuq5Testing of the Providence Mantis system is scheduled to take place in the weel
7.5 - DevskbfwbSbWorking with Peter Evans to ensure aligned with other methane plan actions/p
15.5 - EnsnTzKhLAgL48 has developed a process to identify GHG data issues in L48's system of rec
14.5 - DevJkqkUnEIsL48 held the first Methane Mindset Lunch and Learn in September. A L48 refra
7.3 - DelivdFtyhKj_rUpdate PoC completion date to 04/19 to permit adequate time to complete th
13.3 - DevHxvtcMRYA L48 internal methane communication plan aligned with Segment's communi
7.1 - DeveyAEdyL7aDiscussions ongoing with Peter Evans to develop scope and understand areas
7.3 - DelivdFtyhKj_r11/10/18: Updated title to cover all types of methane sensor, OGI is just an ex
9.3 - ImplthLECEndL48 has successfully implemented an LDAR program on sites that account for 3
7.4 - Leakc pShPtO_Leak detection and quantification trials are ongoing. Draft report in review. On
4.5 - Use Rfoz1MVInitial discussion have taken place.
4.4 - SelechVysv1XsL48 will continue to evaluate emission reducing solutions and choose successfu
4.3 - Com YVDe9fUCL48 began replacing NBU glycol pump in early October.
4.2 - ReplV9zESbZ_In 2000, L48 began swapping replacing high-bleed controllers with ones that e
4.1 - EvalrCpCy8nUL48 evaluated and successfully trialed solar pumps. L48 will continue to evalua
12.6 - RecXS61wToAfter review and with approval from Susan Dio, this action is being discontinue
12.5 - BuilWn527_JIn progress, but for longer term delivery (2019 or beyond). BP and Industry foc
12.4 - HosDlFTCf7-CDelivered. High level actions include provide better clarity to the public around
12.3 - AgrMLMfrJp\Within API's CFR and Upstream committees, BP is supporting the Environment
12.2 - CreDS9CjmQThis is a living document. Document to be updated in November/December to
12.1 - CreXPMEJ-PFAction re-opened on 10/2/18 in response to Oct 1 event in DC. The team is no
10.2 - Alig8SWueUTAction is being worked in close coordination with Sue Ford, in her capacity as a
2.7 EvaluTLzsXjdWRob
1.2 EvaluMqFTFBkI• Final testing of the Mantis VISR camera scheduled for w/c 19Nov on PSVM in An
2.8 - Defirxb51ic-rsInitial engagement session held with GWO in Oct 2018. Identified two specific
2.5 - Benc7bnxEeTnThe evaluation of GHG emissions including methane emissions for a developm
2.4 - Revi-8Jq-LVPbAn initial review of OGCI, IPECA and other existing cross industry forums and in
13.4 - DevW4BrgbZEmployee 'Get involved' challenge is still on track for implementation in 2019.
13.2 - Img4TN8plDThe Upstream methane employee communications plan has been implemente
11.8 - RurvemM-myVirtual press tour featuring immersive technology to showcase major projects
11.3 - ProrworgEhuDelivered second Methane Roundtable event in Washington 1 October 2018, a
15.2 - ReveyPolT4oUEC Process Engineer (Francine Counsell) has been working to update the prev
15.3 - CorYkyeKsdKAn assessment of the differences between US and UK methodologies has been
2.11 - LeaSwVU6V8The final Methane Reducing Best Practices, and the new Draft Implementation
2.9 - Enga3Bt7cTzQAdditionally, the GFH 2019 AOP will include a section on Low Carbon Opportur
2.10 - GFHEuabM34GRE PRMs are occurring during October. Low carbon opportunities have been
2.9 - Enga3Bt7cTzQGFH have written to and received responses from a number of targeted vendo
2.12 - UpIOzT65Pv8th October Update: Working to incorporate methane reducing designs into th
2.10 Cons0vyTsVGeNew action added to plan as agreed at 5th September Upstream Carbon Steeri
15.1 - Dev5GesiwA frame was developed - see attached - and circulated for comment / edit and
4.2 - ReplV9zESbZ_Robert, in preparation for when we will have replaced all high bleed controller
11.5 - AnreasfgfcWWe are planning to execute this in Q1 now, via media announcements and via
3.1 Agree 2bVuFWyGlen Lyon: FGR remains a key commissioning objective, but delayed from 3Q18

1.1 Devel‹Y3hTRWRWorkshops update: GoM now complete, North Sea reschedule 11th Oct, Egypt
1.6 Evalu¿1PKqQV6·successfully implemented & stabilised - initially estimate a 45mmscfd reductio
9.1 - Defir J6MeGl_6Existing GOO Leaks & Seeps document to be reviewed and updated as necessa
8.6 - Dev€QAti9O9Ldue date needs amending to reflect full workscope, and to follow-on/ align wit
8.1 - Eval‹llQUjpU1rScoping survey carried out 3Q18 & used to develop Flare meter uncertainty ev
3.3 Devel‹R-YODiN€Initial thinking to include flaring/ take similar approach as to production losses
3.2 Devel‹MA1q0_vExisting flaring documentation received from most regions - next step: to be re
1.5 Pilot r2AR-U8EFFugitives: 1x QL320 (FLIR camera methane emission calculation software) bein
15.5 - EnsnTzKhLAg5th September Update: L48 has developed a process to identify GHG data issu
15.4 - L48FMt3ReT-5th September Update: The L48 RCE team conducted a peer assist with Upstre
14.5 - De›JkqkUnEIs5th September Update: L48 is currently planning meetings within HSE and the
13.3 - De›HxvtcMR›5th September Update: A L48 internal methane communication plan aligned w
12.5 - Bui‖Wn527_JAdditional L48 Update: Continuing the study of malfunctioning intermittent co
9.3 - Impl‹thLECEnd‹L48 has successfully implemented an LDAR program on sites that account for 3
7.4 - Leak cpShPtO_5th September Update: Leak detection and quantification trials are ongoing. O
4.5 - Use ‹Rfoz1MV(5th September Update: Initial discussion have taken place.
4.4 - Sele‹hVysv1Xs›5th September Update: Solar pump trial on NBU heat trace pumps was succes
4.3 - Com YVDe9fU(5th September Update: NBU glycol pump replacements will need a capital com
4.2 - Repl‹V9zESbZ_5th September Update: All high bleed controller replacements located at upstr
4.1 - Eval‹rCpCy8nU5th September Update: L48 evaluated and successfully trialed solar pumps. L4
2.12 - Up‹IOzT65Pv›5th September Update: Working to incorporate methane reducing designs int
12.3 - Agr MLMfrJp\1) Met with Erik Milito (API Upstream Committee) to understand status of API'
3.2 Devel‹yMUETgwSeptember 4th Update: Four CCUS projects underway, two capture CO2 from i
2.7 Evalu¿TLzsXjdW‹I have also uploaded the Tortue phase 2 and 3 into the action tracker – as per ent
5.4 - Dev€MoTHwiYThe World Bank contacted BP on 27th Feb requesting our support and coopera
2.4 Devel‹ODY2zUt‹GPO Carbon Principles Guide provides guidance for project teams to supplement
6.1 - Revi‹m2d3O8nInitial discussions and introductions complete, next steps are to dig deeper int
7.1 - Dev€yAEdyL7aCurrently in the next stage of planning and the outcomes from this will be use
7.5 - Dev€skbfwbSbThis activity has not started, but will be informed by outcomes and results of 7
7.3 - Deli›dFtyhKj_rDIO team are due to meet and develop a plan for this activity
7.2 - Com dJGSiaiTCDIO with support from L48 HSE and Wamsutter operational team completed fi
11.4 - Lev qLnh9u9qThe Gas and Methane campaign plan sets out a number of ways to use BP's ma
11.1 - De¦M5XZZ7ADeveloped key materials for WGC as part of the advocacy campaign to advance
11.3 - Pro rworgEhuPlanning and delivery of US event (October 2018) and China (November 2018), B
2.10 - GFHEuabM34For all Supplier PRMs that are conducted by GFH, a core requirement for the a
2.9 - Enga3Bt7cTzQGFH have identified GFH managed products that have associated potential for
2.2 Revie›jzgFZbyYil‖Initial results from flare imaging camera trials in Alaska conducted during April
2.2 Requi‖YasDIpV0‖"GN 47-061 is already codified in MPcp V5 - CLOSED "
2.7 Evalu¿TLzsXjdW"The Tortue Phase 1 GHG emissions are forecasted at 9 million tonnes of CO2e
ACTION 7 28ClwfO7An integrated plan has been developed for methane technical activity divided
2.4 - Revi‹-8Jq-LVPbBP is engaged with the following groups supporting the reduction of carbon en
7.6 - Iden·oF9CIuq5‖A device has been tested (Providence Mantis) in Alaska that provides a practical fi
2.8 Under LYZTrQFoStudy works cope with Atkins (on behalf of BP, Shell and Total) to appraise techno
2.7 Evalu¿TLzsXjdW‹Added attachment
2.2 Requi‖YasDIpV0‖Technology Catalogue to be updated with low carbon technologies (e.g. offsho
2.2 Requi‖YasDIpV0‖Technology Catalogue to be updated with low carbon technologies (e.g. offsho

2.1 Condı FMcwQ9€Ongoing benchmarking to strengthen emissions estimations in pre-GPO to eva
2.8 - Defirxb51ic-rs(Initial engagement with projects (e.g. Tortue Phase 2 and 3, Clair South, etc.) o
2.5 - Benc7bnxEeTnPart of ongoing benchmarking activities under the GPO Focus Area on Carbon I
2.9 Using zsUvI3RsCIn progress under GPO Carbon Efficiency Focus Area - Activities Q2 2019. Initial
14.4 - De\7PJwpva_Currently working with OSMA team to review the Group Leader methane videc
14.1 - De\btriXH3svSupport provided to the Group Leaders training which includes a specific meth
15.9 - Wo6LxEZsmf:OGCI is also working with distribution operators to better understand and supp
15.10 - WJsRw7reDThis activity is slightly delayed as the OGCI focus has been on the methane inte
15.9 - Wo6LxEZsmf:The work with OGCI on methane intensity methodology will support creating a
12.6 - RecXS61wTo¿Creating a list of tool capability requirements for this task, then will scan marke
12.4 - Hos:DlFTCf7-CEvent set for October 1 in Washington, DC. See link to document outlining the
12.2 - Cre DS9CjmQ¡1) Created holistic methane campaign document that includes key messages, g
ACTION 1 hi7DGQf7See milestones updates...all are in progress, some are already complete.
12.5 - Bui|IWn527_J1) Clarified that internally BP uses manufacturer-based emission factors and nc
10.1 - Ref E6pFZICs\Update from Dominic 29/08/2018: IMWG proposed process change socialised
1.3 Devel‹ZytBSz9FHUpdate from Dominic 29/08/2018: plan shape GHG data has now been submit
1.2 Roll o‹SHkDSqE-Update from Dominic 29/08/2018: remains work in progress subject to 1.1 finc
12.1 - Cre XPMEJ-PFMethane model regulation framework finished and it has been reviewed by M
10.2 - Alig8SWueUTAction is being worked in close coordination with Sue Ford, in her capacity as a
2.11 - Lea SwVU6V8Following detailed consultation and engagement, the final version of the Meth
2.6 - Revi‹0kqRB93XThe scope of work for JIP 33 Phase 3 is still under discussion among the particip
2.7 - Revi:M9mntWGPO Carbon Principles Plan - Section 7.4.3.5 – Start up and early operations (Su
2.1 Revisi'Otl7mL81GPO Carbon principles document has been updated and makes a specific state
5.6 - Deve DLW7JGo Upstream equity GHG forecast has been built up to provide input to RCM and
7.10 - Ide|HL_ddE6l'Downstream have also been approached to test other aspects of this technology - w
7.8 - Lead_ISU6ce3¡A cross functional workshop was held in June to align processes and projects b
7.9 - Final WZENcGyAn integrtated programme of activity linking technology teams (UT, GT and DIC
7.7 - Com Sar58dRHA full heat map of technical activities currently underway was completed in Jur
1.2 Evalu¿MqFTFBk|o The original tests of a VISR flare monitoring camera (Providence Mantis) have un
15.3 - Cor YkyeKsdK‹Note: IOGP are planning to conduct a comparison of different methane reporti
15.3 - Cor YkyeKsdK‹Methane emissions reporting exchange held with Upstream HSE, Lower 48 anc
15.2 - Reveyp0lT4o‹UEC resource will be used August - September 2018 to support delivery of this
7.4 - Leak cpShPtO_Full milestone: Leak Detection & Quantification Trials: Continue current and pr
9.3 - Impl‹thLECEnd.Full milestone: Implement find and fix LDAR programme in L48: prioritized on
3.2 Devel‹yMUETgwJune 5th Update: Action being progressed by Reservoir Development team. Ini
3.1 Devel‹Jykq23fSaJune 5th Update: Agreed mechanism for inclusion of carbon intensity into FMs
2.9 Using zsUvI3RsCJune 5th Update: This action requires completion of action 1.2, above, to infor
2.8 Under LYZTrQFo •BP , Total and Shell agreed to proceed to a consultant technical study on electrif
2.7 Evalu¿TLzsXjdWJune 5th Update: The updated operating GHG forecast (Gross) for Tortue 1A is
2.6 Consi‹LN_KSrluJClosed: One page position paper developed and issued outlining options and re
2.5 Devel‹p7_-Cv6B'June 5th Update: Update Appraisal one-pagers – to include GHG total, carbon i
2.4 Devel‹ODY2zUt‹June 5th Update: New FM format has been developed - GHG FM Governance G
2.3 Condı iiRXZfZIJk‹Closed: Use of the energy VIP is already a GPO requirement codified in the GPC
2.2 Requi'YasDIpV0'Requirement for projects to be devloped in accordance with GN47-061 has been c
2.1 Condı FMcwQ9€June 5th Update: Implementation ongoing. Emissions benchmarking required a
1.13 Iden'8Hd0QZo_• The top 10 NOJV emitters have been identified, these collectively account for

1.12 Com x1HD-Uq1Alaska Energy Review completed w/c 9th November (telepresence and Skype).
1.11 Gain j1dzdhMl·No longer relevant. Superseded by RIC target of 3.5Mte (gross) RSRs by 2025.
1.10 Deliv6wLIKvF0lJune 5th Update: GOO delivered 0.82 Mte tonnes (gross basis) of SERs to the e
1.9 Seek cKD50T3H/June 5th Update: Decision retired after conversation with stakeholders.
1.8 Assess fDjA0MTtJune 5th Update: In consultation with Policy and Strategy it has been agreed th
1.7a Trial mPTh4kIsProject is on track for delivery as per plan (first green completion trial by Q1 2019
1.7 Produeyg9rIDmCompleted - see attachment
1.6 Evalua1PKqQV6·New operating philosophy was implemented early in May eliminating circa 45 mm
1.5 Pilot r2AR-U8EFThe Alaska field trial of the methane quantification technology (FLIR camera + Pro
1.4 Evalua LH2wk7rF1. L48 committed to reducing CO2e emissions by 700,000 MT CO2e between 2017
1.3 QuantvEaVUsdCCompleted - see attachment
1.2 Evalua MqFTFBklJune 5th Notes: Fugitive emission quantification - Alaska field trial of Providenc
1.1 Devely3hTRWR• RSR opportunities will be identified through regional carbon workshops (2018 U

PostedBy	PostedDate
Stileman, Tim	2019-09-02T08:49:19+00:00
Stileman, Tim	2019-09-02T08:35:50+00:00
Merryane, Stephanie	2019-08-30T09:53:26+00:00
Aitken, Campbell T	2019-08-29T23:03:21+00:00
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Olsson, Jenny CM	2018-08-29T12:26:48+00:00
Olsson, Jenny CM	2018-08-29T12:12:37+00:00
O'Brien, Robert	2018-08-28T15:37:53+00:00
Evans, Peter	2018-08-24T07:28:53+00:00
Evans, Peter	2018-08-24T07:17:00+00:00
Evans, Peter	2018-08-24T07:14:08+00:00
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Evans, Peter	2018-08-24T07:05:49+00:00
O'Brien, Robert	2018-08-14T11:44:57+00:00
O'Brien, Robert	2018-08-14T11:44:25+00:00
Ford, Susan J (Sunbury)	2018-08-14T11:30:28+00:00
Walker, Marisa	2018-08-06T14:48:55+00:00
Walker, Marisa	2018-08-06T14:46:05+00:00
O'Brien, Robert	2018-07-26T12:57:54+00:00
O'Brien, Robert	2018-07-26T12:57:11+00:00
O'Brien, Robert	2018-07-26T12:56:33+00:00
O'Brien, Robert	2018-07-26T12:55:46+00:00
O'Brien, Robert	2018-07-26T12:54:48+00:00
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O'Brien, Robert	2018-07-26T12:44:11+00:00
O'Brien, Robert	2018-07-26T12:43:11+00:00
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O'Brien, Robert	2018-07-26T12:41:49+00:00
O'Brien, Robert	2018-07-26T12:40:58+00:00

O'Brien, Robert	2018-07-26T12:40:46+00:00
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O'Brien, Robert	2018-07-26T12:40:22+00:00
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O'Brien, Robert	2018-07-26T12:31:28+00:00