

# Senate Resources Committee

**Alaska Fiscal System Discussion Slides** 

February 22 2013 Janak Mayer Manager, Upstream PFC Energy

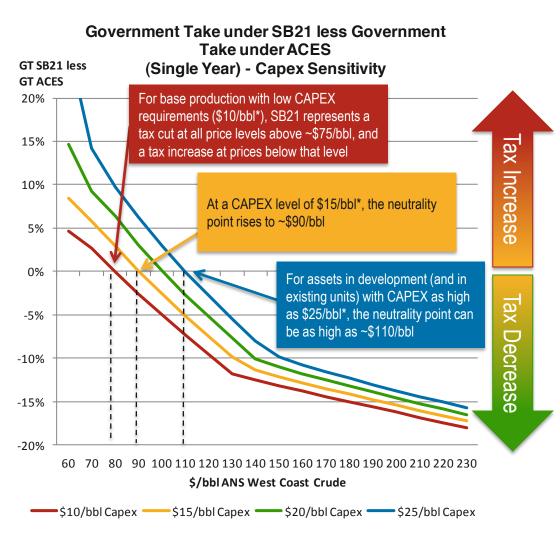
#### Requested Analysis:

Letter of Intent recommendation for evaluation point 3 – impact of continuing capital credits for well expenditures

Impact of combining well credits with bracketed progressivity

Impact of instead using a 35% base rate tax, combined with a production-based credit of \$5/taxable bbl, claimable only in year of production

## Government Take under SB21/HB72 and ACES – Capex Sensitivity



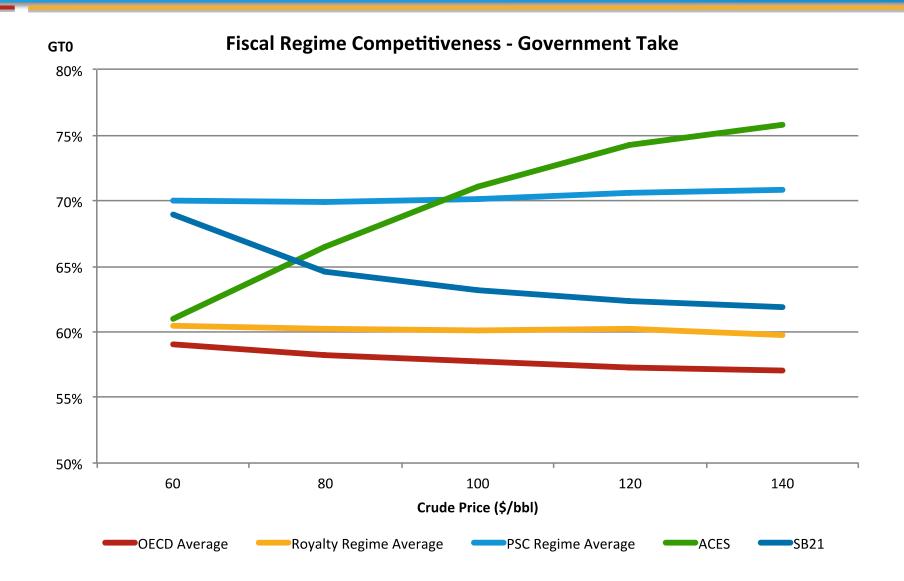
<sup>\*</sup> All CAPEX figures are in gross bbl terms (\$15 per gross bbl is roughly equivalent to DOR 2014 average North Slope forecast of \$19.6 per bbl net of royalty, when adjusted for gross/net and for capital expenditures by non-taxable entities)

- •As noted in PFC Energy testimony on 1/31/13, at low oil prices, Relative Government Take under SB 21 is higher than under ACES, due to the impact of low or no progressivity, combined with the elimination of the 20% capital credit under SB 21
- •The oil price level at which this occurs is highly sensitive to annual levels of capital spending, since CAPEX both reduces the oil price level at which progressivity kicks in under ACES, and determines the size of the available capital credit under ACES
- •Looking at a **single year of production** also slightly raises this neutrality point, since over many years, inflation reduces the real price level at which progressivity starts under ACES
- •For mature, producing assets with a low ongoing CAPEX requirement (\$10/bbl), SB21 represents a **reduction in government take at prices above ~\$75**, however for capital intensive new developments in existing units, that neutrality **point can be as high as** \$110/bbl
- •It is thus important to understand that one impact of the removal of the 20% capital credit under SB 21 is that for companies with high development costs relative to overall production, it can represent a tax increase at current prices

**PFC** Energy

Slide Number: 3

#### Fiscal Regime Competitiveness



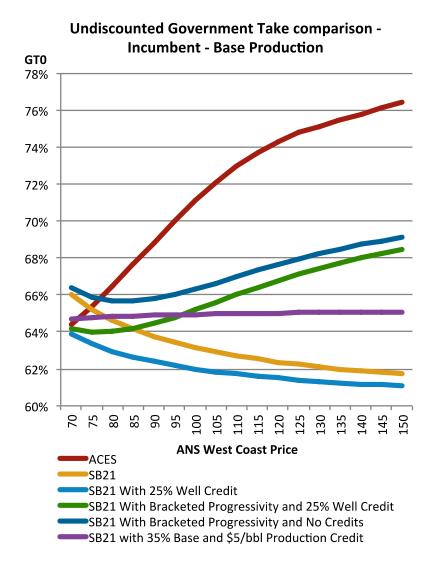


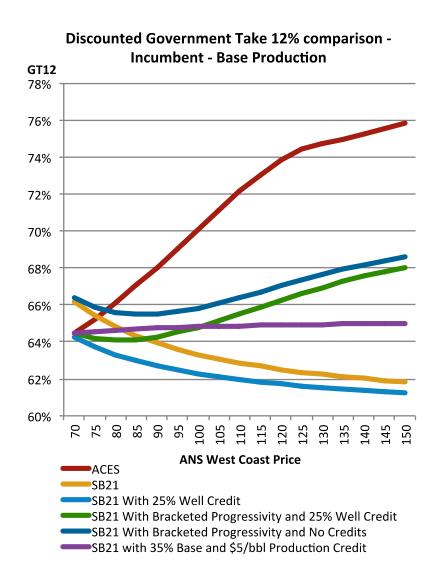
#### Assumptions

- Well Credit
  - 50% of capex qualifies, credit level 25%
- Bracketed progressivity
  - Thresholds and rates as under HB110:
    - Base tax 25%
    - <\$30 PTV/bbl, 0% progressivity</p>
    - \$30-\$42.5, 2.5% progressivity
    - \$42.5-\$55 7.5% progressivity
    - \$55-\$67.5 12.5% progressivity
    - \$67.5-\$80 17.5% progressivity
    - \$80-\$92.50 22.5% progressivity
    - >\$92.50 PTV/bbl 25% progressivity

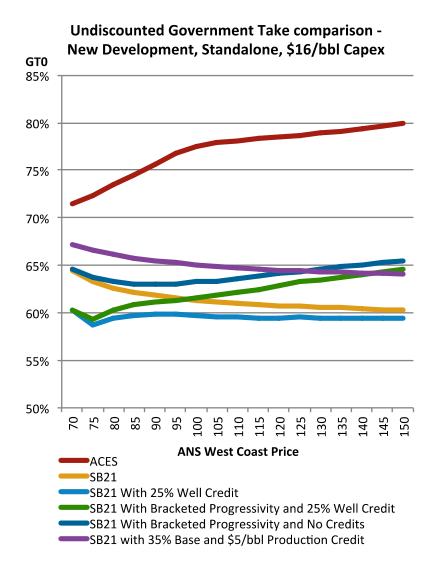


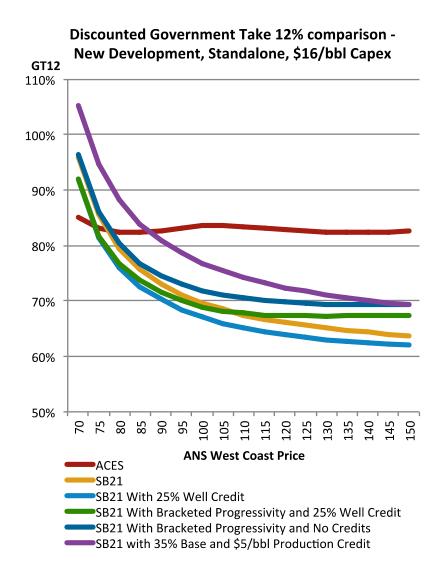
## **Government Take Comparison Incumbent, Base Production**



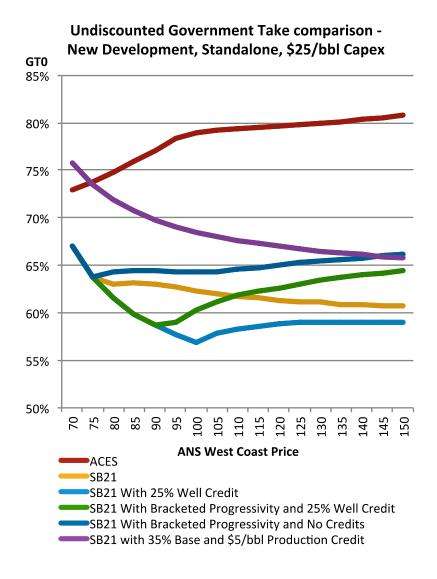


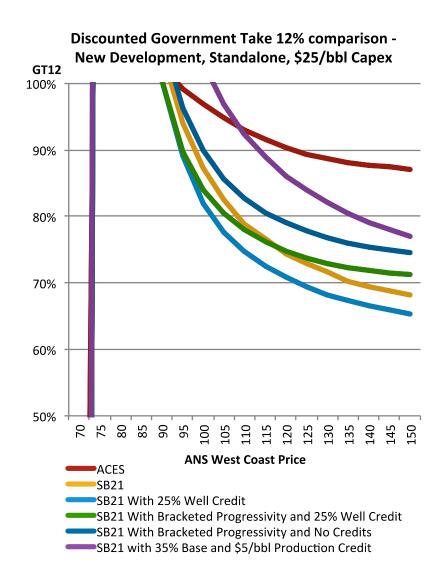
## Government Take Comparison \$16/bbl New Development, Standalone





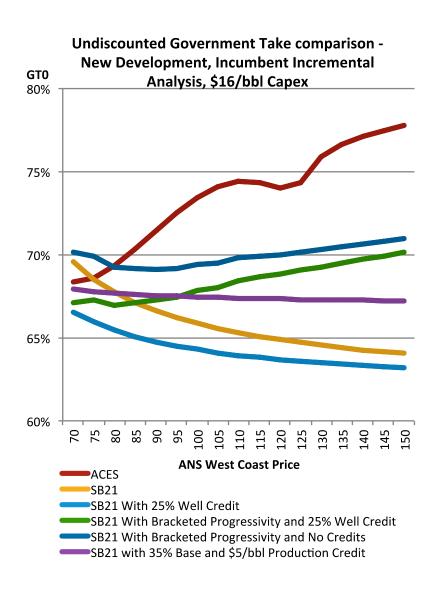
#### Government Take Comparison \$25/bbl New Development (with GRE), Standalone

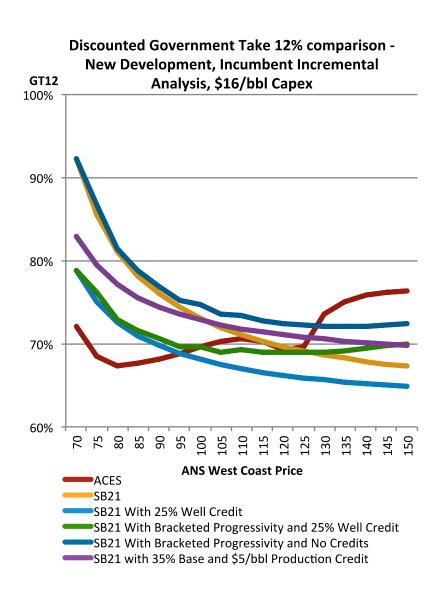




#### **Government Take Comparison**

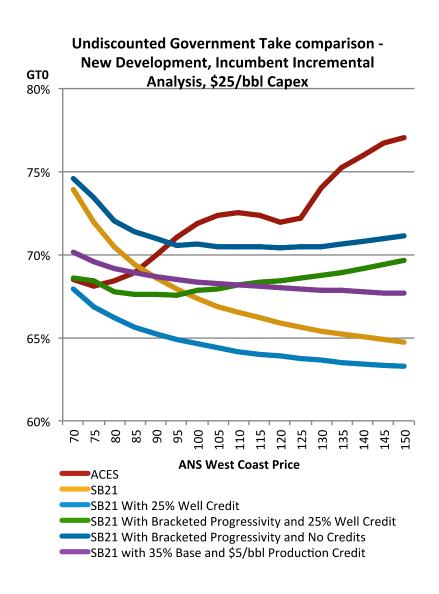
#### \$16/bbl New Development, Incumbent Producer Incremental Analysis

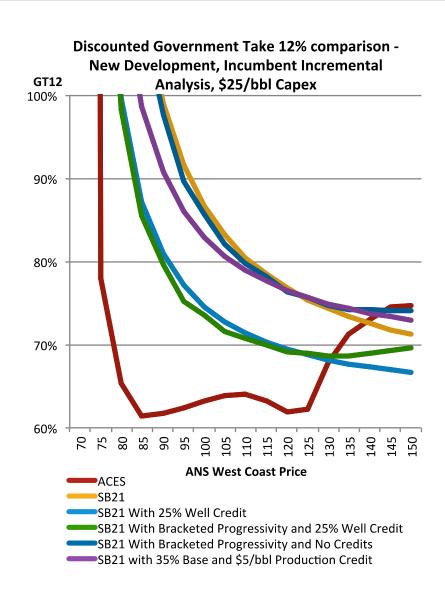




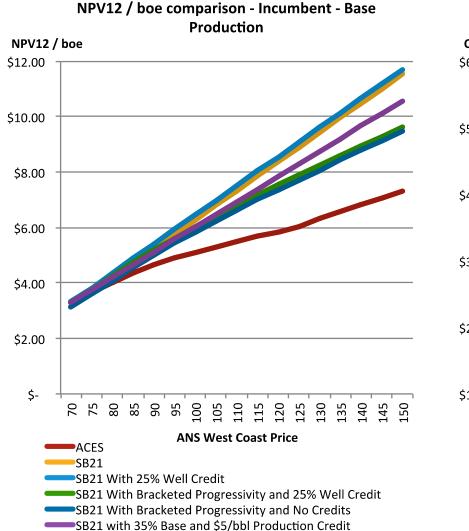
#### **Government Take Comparison**

#### \$25/bbl New Development, Incumbent Producer Incremental Analysis

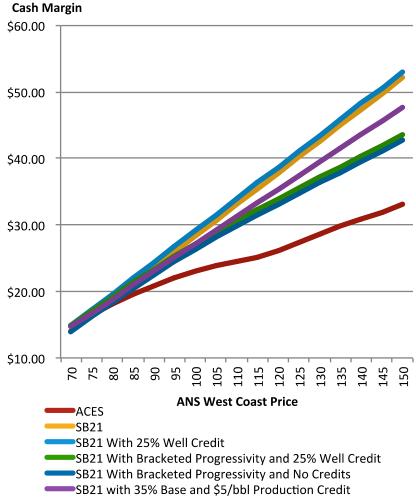




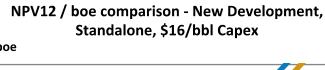
**Incumbent, Base Production** 

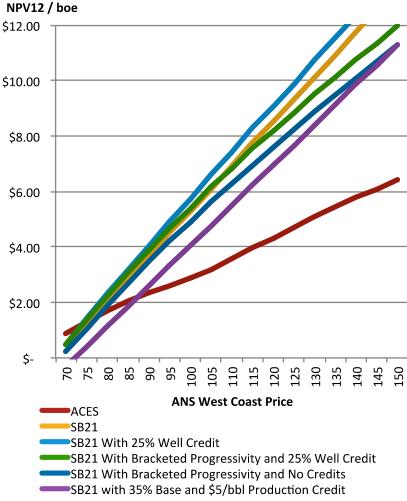


### Cash Margin (2017 - 2022) comparison - Incumbent - Base Production

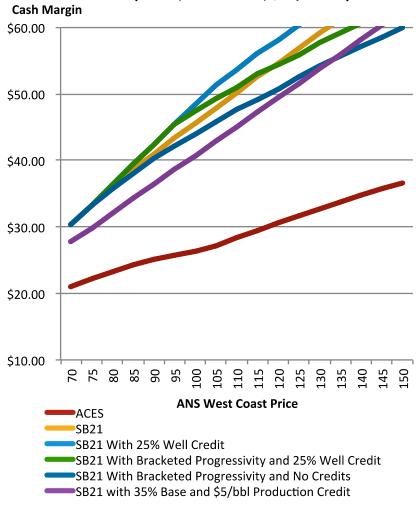


\$16/bbl New Development, Standalone

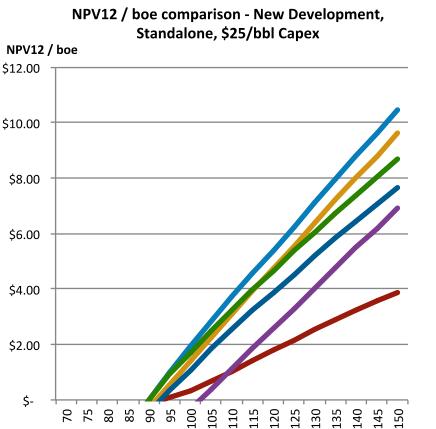




### Cash Margin (2017 - 2022) comparison - New Development, Standalone, \$16/bbl Capex

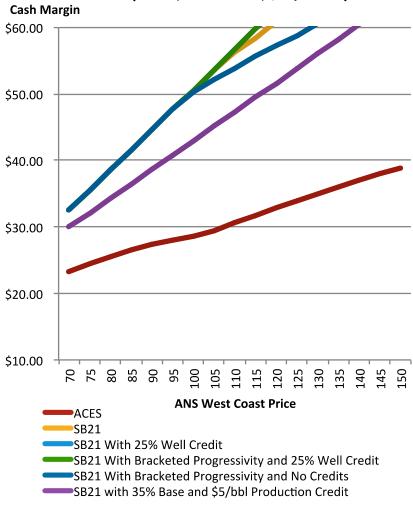


\$25/bbl New Development, Standalone

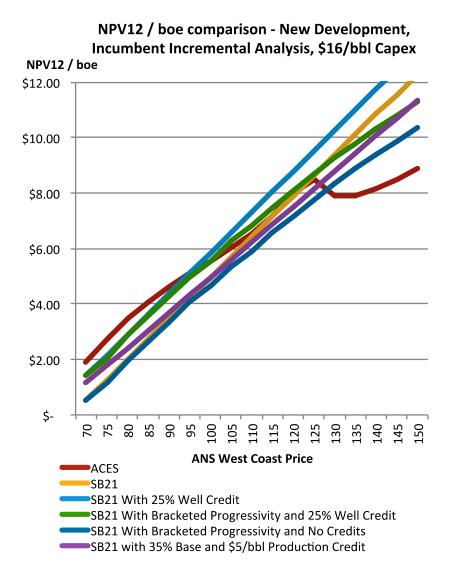


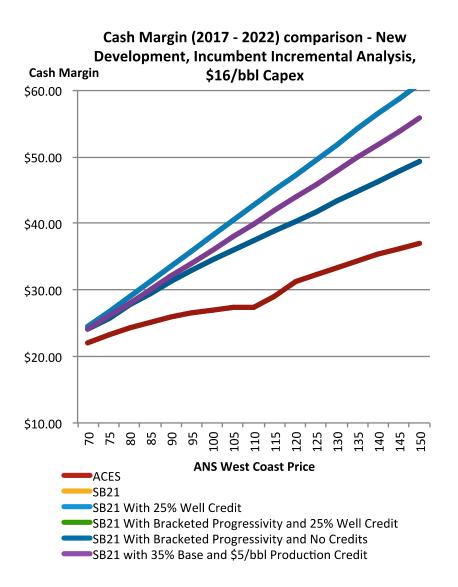
# ANS West Coast Price ACES SB21 SB21 With 25% Well Credit SB21 With Bracketed Progressivity and 25% Well Credit SB21 With Bracketed Progressivity and No Credits SB21 with 35% Base and \$5/bbl Production Credit

### Cash Margin (2017 - 2022) comparison - New Development, Standalone, \$25/bbl Capex



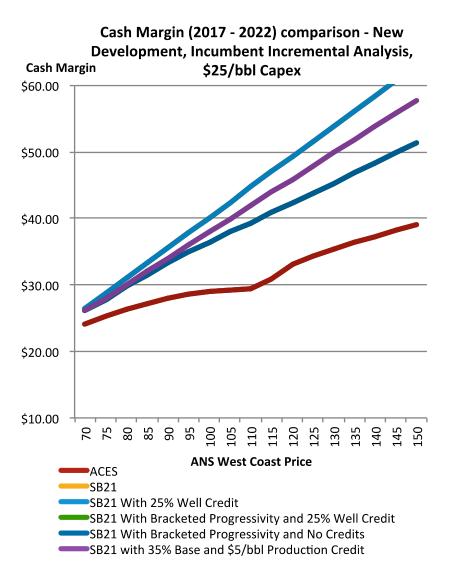
\$16/bbl New Development, Incumbent Producer Incremental Analysis





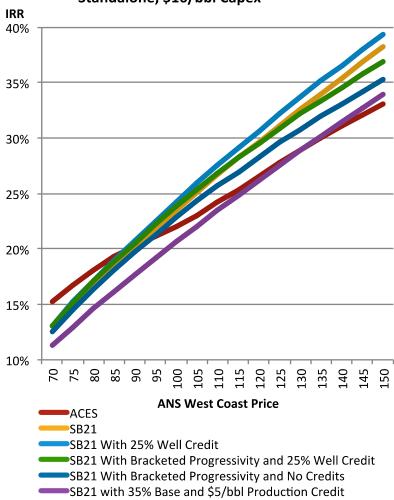
\$25/bbl New Development, Incumbent Producer Incremental Analysis



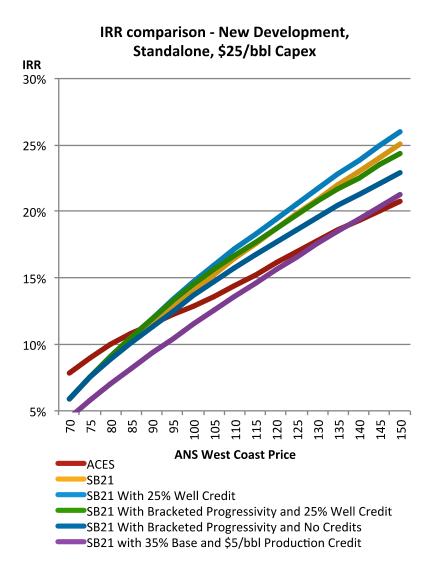


#### IRR Comparison \$16/bbl New Development, Standalone

#### IRR comparison - New Development, Standalone, \$16/bbl Capex

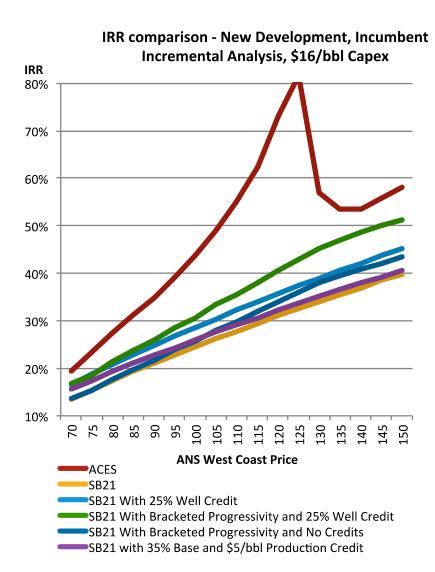


#### IRR Comparison \$25/bbl New Development, Standalone



#### **IRR Comparison**

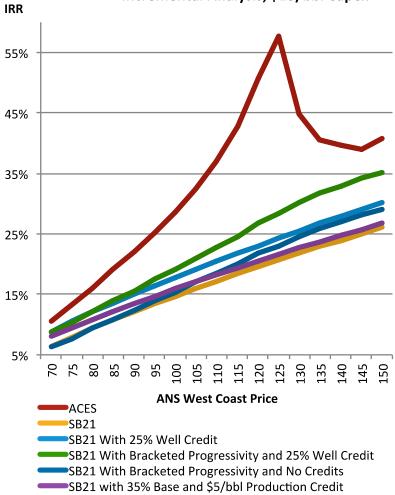
#### \$16/bbl New Development, Incumbent Producer Incremental Analysis



#### **IRR Comparison**

#### \$16/bbl New Development, Incumbent Producer Incremental Analysis





#### Conclusions

- Elimination of credit has a significant negative impact on project economics at low prices, or high development costs – though for new developments outside existing areas, this is more than offset by the GRE.
- Partial reinstatement of credits (for instance more targeted well expenditure credit) can partially mitigate this, but not fully.
- Bracketed progressivity a feasible approach to balancing revenue impact of partial or full reinstatement of credits.
- Higher base tax and production-based credit an interesting approach, and may help question of tax increase for base production at low prices. Since credit does not contribute when costs are incurred, does not address impact on higher-cost development.

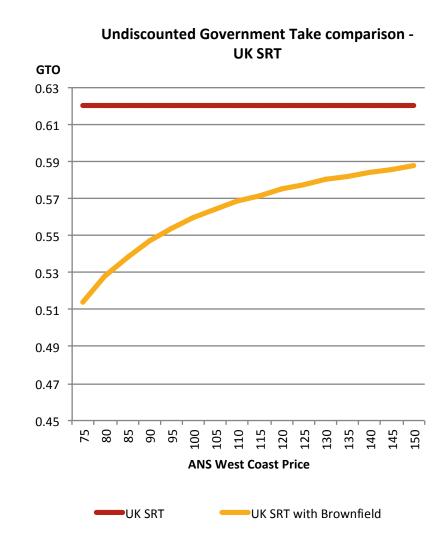
#### Requested Analysis:

Impact of UK Brownfield Allowance



#### Impact of UK Brownfield Allowance

- The UK's fiscal regime is a relatively simple one, with two core components a Corporate Income Tax (CIT) of 30%, and a Supplemental Resource Tax (SRT) of 32%, levied on the CIT tax base
- The UK Brownfield Allowance is an income exclusion, used in calculating the SRT. Up to a total £250mm of income can be excluded, with up to 20% of the exclusion amount allowed in a given year. For projects subject to the additional Petroleum Tax (pre-1993 projects), the exclusion is up to £500mm of income
- Because it is a fixed exclusion, it has a greater impact at lower oil prices
- Projects are individually assessed for qualification, and for the total amount of relief available. Qualifying projects are incremental projects increasing production from mature fields.
- A 100mmb incremental development, with costs of \$25/bbl, could see its government take reduced by to anywhere from 3 to 11 percentage points, depending on the oil price level



#### Main Regional Offices

#### Asia

PFC Energy, Kuala Lumpur Level 27, UBN Tower #21 10 Jalan P. Ramlee 50250 Kuala Lumpur, Malaysia Tel (60 3) 2172-3400 Fax (60 3) 2072-3599 PFC Energy, Singapore 15 Scotts Road Thong Teck Building, #08-04 Singapore 228218 Tel no: +65 6736 4317

# **Europe**PFC Energy, France 19 rue du Général Foy 75008 Paris, France Tel (33 1) 4770-2900 Fax (33 1) 4770-5905

North America
PFC Energy, Washington D.C.
1300 Connecticut Avenue, N.W.
Suite 800
Washington, DC 20036, USA
Tel (1 202) 872-1199
Fax (1 202) 872-1219

PFC Energy, Houston 2727 Allen Parkway, Suite 1300 Houston, Texas 77019, USA Tel (1 713) 622-4447 Fax (1 713) 622-4448

www.pfcenergy.com | info@pfcenergy.com

#### PFC Energy, China

79 Jianguo Road China Central Place Tower II, 9/F, Suite J Chaoyang District Beijing 100025, China Tel (86 10) 5920-4448 Fax (86 10) 6530-5093

#### **Notice**

This material is protected by United States copyright law and applicable international treaties including, but not limited to, the Berne Convention and the Universal Copyright Convention. Except as indicated, the entire content of this publication, including images, text, data, and look and feel attributes, is copyrighted by PFC Energy. PFC Energy strictly prohibits the copying, display, publication, distribution, or modification of any PFC Energy materials without the prior written consent of PFC Energy.

These materials are provided for the exclusive use of PFC Energy clients (and/or registered users), and may not under any circumstances be transmitted to third parties without PFC Energy approval.

PFC Energy has prepared the materials utilizing reasonable care and skill in applying methods of analysis consistent with normal industry practice, based on information available at the time such materials were created. To the extent these materials contain forecasts or forward looking statements, such statements are inherently uncertain because of events or combinations of events that cannot reasonably be foreseen, including the actions of governments, individuals, third parties and market competitors. ACCORDINGLY, THESE MATERIALS AND THE INFORMATION CONTAINED THEREIN ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY, ACCURACY, OR FITNESS FOR A PARTICULAR PURPOSE. Conclusions presented herein are intended for information purposes only and are not intended to represent recommendations on financial transactions such as the purchase or sale of shares in the companies profiled in this report.

PFC Energy has adjusted data where necessary in order to render it comparable among companies and countries, and used estimates where data may be unavailable and or where company or national source reporting methodology does not fit PFC Energy methodology. This has been done in order to render data comparable across all companies and all countries.

This report reflects information available to PFC Energy as of the date of publication. Clients are invited to check our web site periodically for new updates.

Slide Number: 24

© PFC Energy, Inc. License restrictions apply. Distribution to third parties requires prior written consent from PFC Energy.









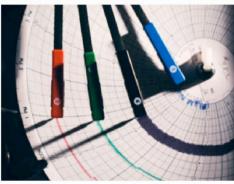


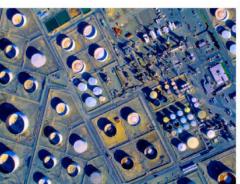
A trusted advisor to energy companies and governments for over twenty five years















**PFC** Energy