Sabah Gas Conservation Project: Reducing Gas Flaring using the Clean Development Mechanism

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- Voluntary commitment to reduce Shell Group emissions by 5% below 1990 levels by 2010, even as we grow the business
- Conventional hydrocarbon production is becoming more difficult
- Rapidly changing regulatory landscape in the Asia-Pacific region
- Aspiring towards "Zero Continuous Flaring" across EP operations
- CDM recognized as a valid mechanism to manage GHG emissions

Group Emissions



The 1990 baseline and absolute 2010 target will change again between 2008 - 2010 as the portfolio changes.









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Shell-Operations in Sabah, Malaysia



Sabah Gas Conservation Project



Why do a CDM Project at SGCP?

- No regulatory framework as yet governing gas flaring, but fully aligned with national aspirations to make a positive impact
- Marginal project economics; going the CDM route provided an impetus to progress the project with JV partner
- Potential CER credits could partially offset the total project cost
- Trigger the wider replication of gas flaring reduction via CDM projects in other Asia Pacific operations & non-Annex I countries

SGCP – Alignment with CDM Rules

- Key to CDM demonstrating barrier analysis and additionality
- Clear project boundary (baseline, project emissions & leakage)
- New monitoring methodology front based on Rang Dong
- Alignment with an Annex-1 entity (Shell Trading) in the UK



Additionality/Barrier Analysis



Alt 5: South Furious excess gas is continuously flared

SGCP Project Boundary



Project Status

- Project successfully commissioned with ~5 MMscfd gas being currently exported from SF to SJ for re-injection
- Potential to generate ~707 ktonnes CO2 abatement over the 10-year crediting period; 70% in first four years.

Project's CDM Application Status



Summary

- A material reduction in gas flaring is possible via CDM projects
- The process for registering an EP project is however lengthy......urgent need to expedite flow from idea to issuance of credits
- Approval of new methodology is essential to replicate success in other upstream locations with similar flaring challenges
- Post-CDM implementation, we need to develop a standardized approach for monitoring and verification of emissions reductions