

Company Name _____ Analyst: _____ Date: _____

Report Title _____

Pacific Sustainability Index 2.0 TM

Revised 1/27/06

Petroleum Refining Sector Specific Scoring Sheet

Environmental Reporting

Quantitative Data

*1 point if there is a mention of the topic;
Add 1 point if there is a discussion of the topic that includes numerical data.
Add 1 point if historical data are presented;
Add 1 point if there is a positive data trend;
Add 1 point if data are better than peer average, if the company is clearly taking a leadership position for the sector, or if data are at maximum performance (e.g. 100% recycling rate, 0 emissions, 0 injuries).*

C. Recycling

106 Waste water recycled Waste water that is reused in the manufacturing process or otherwise recycled.

D. Waste

110 Waste water released The amount of liquid waste released to natural waters.

E.i. Emissions to air

111 Greenhouse gases, total The sum of all greenhouse gases released, which could include CO₂, CH₄ (methane), N₂O (nitrous oxide), SF₆ (Sulphur hexafluoride), PFCs (Perfluorocarbons) and HFCs (hydrofluorocarbons). The report should label this indicator as "greenhouse gases released" or similar.

112 Carbon dioxide (CO₂) CO₂ emissions resulting from all company operations. For energy and utility sector, covers exploration and production, and emissions in general.

114 Volatile organic carbon (VOC) Total emissions of volatile organic compounds, airborne chemicals most often released during the painting process.

115 Methane (CH₄) Methane (CH₄) released to air.

116 Sulfur hexafluoride (SF₆) SF₆ (Sulfur hexafluoride) emissions (most often given in CO₂ equivalents; the CO₂ equivalent for SF₆ is 23,900).

118 Carbon monoxide (CO) Carbon Monoxide (CO) released.

121 Nitrogen oxides (NO_x) Emissions of all nitrogen oxides to air.

123 Particulate matter "Particulate matter" usually refers to all material emitted to air smaller than 10 microns in diameter (PM₁₀). Smaller, more toxic material such as PM_{2.5}, smaller than 2.5 microns, may also be called out.

127 Sulfur oxides (SO_x) Emissions of all sulfur oxides, including sulfur dioxide (SO₂).

E.iii. Emissions to water

129 Suspended solids, total (TSS) A measure of the amount of solids in wastewater. TSS can include a wide variety of material, such as silt, decaying plant and animal matter, industrial wastes, and sewage.

131 Biochemical Oxygen Demand (BOD) BOD is a measure of the concentration of biodegradable organic matter present in water and refers either wastewater effluent or receiving waters.

132 Emissions to water, total, including fuel s The release of chemicals or waste to water bodies. Typically called emissions to water, releases to water, or effluent emissions.

F. Management and Misc.

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136	Recovery of fuel spillage	Efforts to remediate oil spillage, i.e. speed up the biodegradation process of the oil spill.	[]	[]
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Qualitative Data

*1 point if there is a mention of the topic;
 Add 1 point if there is a discussion a program/policy the company uses to implement the program.
 Add 1 point if there is a discussion on the benefits or advantages from the program;
 Add 1 point if the program is continuously being monitored or improved by the company;
 Add 1 point if the company is a leader or role model as evidenced by external recognition or awards.*

F. Management

133	R&D on green technologies	Research and development on green technologies	[]	[]
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F. Management and Misc.

134	Protection of marine ecosystem	Efforts to enhance, protect, and conserve the marine ecosystem	[]	[]
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137	Pipelines, monitoring and maintenance	Efforts to maintain a safe and dependable pipeline. Monitoring for leaks and minimization of environmental impact. Relevant to the petroleum and natural gas industries.	[]	[]
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H. Materials usage

147	Life Cycle Analysis (LCA)	Life Cycle Analysis (LCA) is a formal procedure that examines the environmental aspects and impacts of a process or product from "cradle to grave". To get credit here, it must be referred to as life cycle analyses or planning.	[]	[]
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Social Reporting

Quantitative Data

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 Add 1 point if historical data are presented;
 Add 1 point if there is a positive data trend;
 Add 1 point if data are better than peer average, if the company is clearly taking a leadership position for the sector, or if data are at maximum performance (e.g. 100% recycling rate, 0 emissions, 0 injuries).*

C. Quantitative Social Performance

158	Fatal Injuries	The total number of injury causing death.	[]	[]
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159	Serious Injuries	The total number of injury that (1) requires hospitalization for more than 48 hours, commencing within seven days from the date the injury was received; (2) results in a fracture of any bone (except simple fractures of fingers, toes or nose); (3) causes severe hemorrhages, nerve, muscle or tendon damage; (4) involves any internal organ; or (5) involves second or third-degree burns, or any burns affecting more than 5% of the body surface.	[]	[]
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Qualitative Data

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B. Qualitative Social Performance

154	Access to health care	Efforts to provide access to affordable health care in low income communities and/or developing countries. Specific to pharmaceuticals.	[]	[]
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